

# DEICORP PROJECTS SHOWGROUND PTY LTD



# **Detailed Site Investigation**

Doran Drive Precinct, 2 Mandala Parade, Castle Hill NSW

E24724.E02\_Rev2 9 July 2021

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# **Executive Summary**

#### Background

Deicorp Projects Showground Pty Ltd ('the client') engaged EI Australia (EI) to undertake a Detailed Site Investigation (DSI) for the property located at Doran Drive Precinct, 2 Mandala Parade, Castle Hill NSW ('the site') to allow redevelopment of the site.

It was understood that redevelopment of the site is a State Significant Development (SSD). The site (Doran Drive Precinct) is situated in the central portion of the Hills Showground Station Precinct development area, covering a total area of 7,969 m<sup>2</sup>. At the time of this investigation the site was a vacant lot, cleared of all structures. The development includes construction of multi-storey, mixed use commercial and residential apartment buildings, overlying a common podium structure with six-levels of basement.

#### Objectives

The main objective of this investigation was to:

 Investigate the degree of any potential contamination by means of intrusive sampling and laboratory analysis, for relevant contaminants of concern.

A further objective, should site contamination be confirmed, was to make recommendations for the appropriate management of any contaminated soils and/or groundwater.

#### **Key Findings**

- The site was found to be a rectangular vacant block, secured by construction hoarding and security fencing. It was elevated above the surrounding land, which displayed a moderate downslope towards the southwest. The ground surface was covered by exposed fill materials, with limited vegetation present onsite. No visual evidence of gross contamination, UPSS or UST was observed on the site during the site inspection.
- A review of historical information indicated the site was used as rural residential, agricultural, vacant pastoral and public open space (playing fields) until the late 1980s. Since 2013, significant ground disturbance works (bulk earthworks and material storage) have been completed as a result of the Sydney Metro North West (SMNW) Project activities ('Metro Northwest Link'). The site was used for a holding and processing yard during that period, which included excavated water treatment basins, material/equipment storage and site sheds. During 2019, the current site configuration was established and cleared of all previous structures. The site surface was significantly filled and raised above the surrounding land.
- The site and surrounding lands were not listed on any of the EPA records reviewed.
- Soil sampling and analysis were conducted at 19 locations across the site.
  - The sub-surface layers observed comprised of fill materials (up to 4.0m depth) overlying natural clay and sandstone bedrock;
  - Laboratory results for all the soil samples collected reported concentrations below the most conservative human health and ecological based SILs;



- Laboratory results indicated that natural soils on site were non-saline. Soils were found to be slightly acidic (pH ranged from 4.6 to 6.1), with the exception of soil sample at BH3M reported pH at 9.4
- Four groundwater monitoring wells were installed on the site.
  - Standing Water Levels (SWL) were observed between 2.58 and 4.48 mBGL;
  - Groundwater was likely to flow hydraulically south-westerly towards Cattai Creek;
  - Concentrations of PAHs, BTEX, TRHs and VOCs were reported below the adopted criteria;
  - Concentrations of heavy metals were reported below the adopted freshwater criteria, with the exception of chromium, copper, lead, nickel and zinc. However, the detected concentrations are considered to be indicative of background conditions, rather than site specific impacts.
  - Therefore the identified groundwater concentrations are not considered to present a cause for human health and environmental concern.
- Based on the analytical results, the following preliminary classifications were provided (with reference to the EPA (2014) Waste Classification Guidelines):
  - The fill materials on the site were classified as *General Solid Waste (Non-Putrescible)*; and
  - The underlying natural soils on the site were classified as Virgin Excavated Natural Material (VENM).

Based on the findings of this investigation, EI conclude that the site is suitable for the proposed mixed commercial and residential development provided the recommendations detailed in **Section 11** are implemented.



# 1. Introduction

# 1.1 Background and Purpose

Deicorp Projects Showground Pty Ltd ('the client') engaged EI Australia (EI) to undertake a Detailed Site Investigation (DSI) of the land parcel located at Doran Drive Precinct, 2 Mandala Parade, Castle Hill NSW ('the site') to allow redevelopment of the site.

The site is located within the Local Government Area (LGA) of The Hills Shire Council, as shown in **Figure 1** (**Appendix A**), and covers a total area of 7,969  $m^2$ , as shown on the survey plan attached in **Appendix C**. The site can be further identified as Lot 55 in Deposited Plan (DP) 1253217.

El understands that redevelopment of the site is a State Significant Development (SSD). The site (Doran Drive Precinct) is situated in the central portion of the Hills Showground Station Precinct development area, with Hills Showground Metro Station to the south, Hills Showground Precinct East and Hills Showground Precinct West to the east and west, respectively. At the time of this investigation the site was a vacant rectangular block, cleared of all structures.

# 1.2 Proposed Development

Based on the supplied plans (**Appendix C**), the proposed development would include construction of multi-storey, mixed use commercial and residential apartment buildings, overlying a common podium structure with six-levels of basement car park.

The basements were to be constructed to the site boundaries, with the lowest basement level (B06) will require a Finished Floor Level (FFL) of 70.20m Australian Height Datum (AHD). It is understood that a Bulk Excavation Level (BEL) of RL 69.10mAHD will be required for the lowest basement level, which includes allowance for the construction of the basement slab. To achieve the BEL, excavation depths of 19 m Below Existing Ground Level (mBGL) at the Doran Drive end of the site to 26.6 mBGL at the Andalusian Way end of the site have been estimated. Locally deeper excavations may be required for footings, services trenches, crane pads and lift overrun pits.

## 1.3 Regulatory Framework

The following regulatory framework and guidelines were considered during the preparation of this report:

- Contaminated Land Management Act 1997 (the CLM Act);
- Protection of the Environment Operations Act 1997 (the POEO Act);
- State Environmental Planning Policy 55 (SEPP 55) Remediation of Land;
- State Environmental Planning Policy (State and Regional Development) 2011;
- EPA (1995) Sampling Design Guidelines;
- EPA (2017) Guidelines for the NSW Site Auditor Scheme;
- EPA (2020) Consultants Reporting on Contaminated Land: Contaminated Land Guidelines;
- NEPC (2013) Schedule B(2) Guideline on Site Characterisation, in Amended National Environmental Protection (Assessment of Site Contamination) Measure 1999;
- NEPC (2013) Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater,



- Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River (No 2-1997);
- The Hills Local Environmental Plan 2019; and
- The Hills Development Control Plan (DCP) 2012.

### 1.4 Project Objectives

The main objective of this investigation was therefore to:

 Investigate the degree of any potential contamination by means of intrusive sampling and laboratory analysis, for relevant contaminants of concern.

A further objective, should site contamination be confirmed, was to make recommendations for the appropriate management of any contaminated soils and/or groundwater.

### 1.5 Scope of Works

In order to achieve the above objectives, the following scope of works was completed:

- Preparation of a Work, Health, Safety & Environment Plan;
- A review of existing underground services on site ('Dial-before-you-dig' DBYD) and carry out an underground search for buried services using elector-magnetic equipment;
- A review of relevant geological, hydrogeological and soil landscape maps for the project area;
- A search of groundwater bore records within close vicinity to the site;
- A review of previous environmental reports;
- A site inspection;
- Excavation of test pits and drilling of boreholes at 19 locations distributed in a triangular grid pattern across accessible areas of the site;
  - Drilling of boreholes to assess salinity at 3 locations to approximately 1m below the proposed bulk excavation (or prior refusal on bedrock);
- Installation of four groundwater monitoring wells, both up-gradient and down-gradient of the proposed development area. Groundwater monitoring wells would be constructed to standard environmental protocols to investigate potential groundwater contamination;
- Multiple level soil sampling within fill and natural soils and one round of groundwater sampling from the constructed groundwater monitoring wells;
- Laboratory analysis of selected soil and groundwater samples for relevant analytical parameters as determined from the site history survey and field observations during the investigation programme; and
- Data interpretation and reporting.

This DSI report has been prepared in accordance with the EPA (2020) to document desk study findings, the conceptual site model, data quality objectives, investigation methodologies and results. The report also provides a record of observations made during the detailed site walkover inspection, borehole and test pit logs, and a discussion of laboratory analytical results in regards to potential risks to human health, the environment and the aesthetic uses of the land.



# 2. Site Description

# 2.1 Property Identification, Location, and Physical Setting

The site identification details and associated information are presented in **Table 2-1**, while the site locality is shown in **Figure 1 (Appendix A)**.

**Attribute Description** Street Address Doran Drive Precinct, 2 Mandala Parade, Castle Hill NSW Location Description 10 km north-west of Parramatta CBD, bound by De Clambe Drive to the north, Andalusian Way to the east, Mandala Parade to the south and Doran Drive to the west. Coordinates Northeast corner of site: GDA2020-MGA56 Easting: 313544.048; Northing: 6266325.101. (Source: http://maps.six.nsw.gov.au) 7,969 m<sup>2</sup> Site Area Lot and Deposited Plan (DP) Lot 55 in DP 1253217 Two State Survey (SS) marks are situated within close proximity to the site: State Survey Marks SS62672N: at the roundabout of Carrington Road and Andalusian Way (approximately 63m southeast); and SS180257: on Carrington Road (approximately 83m southwest). (Source: http://maps.six.nsw.gov.au) Local Government Authority The Hills Shire Council Parish Castle Hill Cumberland County **B2: Local Centre** Current Zoning (The Hills Local Environmental Plan 2019)

 Table 2-1
 Site Identification

## 2.2 Surrounding Land Use

The site is situated within the Hills Showground Station Precinct development area as described in **Table 2-2**. The sensitive receptors within close proximity of the site (approximately 250m) are also identified.



| Direction | Land Use Description                                                                                                                                                                            | Sensitive Receptors<br>(& distance from site)                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| North     | <ul><li>Castle Hill Showground</li><li>Residential properties</li></ul>                                                                                                                         | <ul> <li>Residential (approximately 250m north)</li> </ul>                                                  |
| South     | <ul> <li>Hills Showground Metro Station and associated<br/>station plaza</li> <li>Residential properties</li> <li>Carrington Preschool</li> </ul>                                               | <ul> <li>Residential (approximately 70m south)</li> <li>Preschool (approximately 110m southwest)</li> </ul> |
| East      | <ul> <li>Hills Showground Precinct East, which consists<br/>of the former The Hills Shire Council<br/>administration building and associated parking</li> <li>Residential properties</li> </ul> | <ul> <li>Residential (approximately 200m east)</li> </ul>                                                   |
| West      | <ul> <li>Hills Showground Precinct West, which consists<br/>of a commuter carpark and plaza</li> <li>Cattai Creek</li> <li>Commercial properties, including warehouse,</li> </ul>               | <ul> <li>Cattai Creek (approximately 200m west)</li> </ul>                                                  |
|           | <ul> <li>commercial properties, including warehouse,<br/>car &amp; motorcycle repair shops and restaurants.</li> </ul>                                                                          |                                                                                                             |

#### Table 2-2 Surrounding Land Uses

# 2.3 Regional Setting

The local topography, regional hydrogeology, geology and soil landscape information are summarised in **Table 2-3**.

| Attribute        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Topography       | The site displays a moderate downslope towards the southwest, with site levels varying from 98.13m AHD in the north-eastern site corner to 90.63m AHD in the south-western site corner ( <b>Appendix C</b> ). The batters along the site boundaries have an average 1-1.5m drop towards the surrounding roads. Regionally, the area slopes south-westerly towards Cattai Creek.                                                                                                                            |  |  |
| Site Drainage    | Site drainage is likely to be consistent with the general slope of the site. Any run off would be expected to flow into the new constructed stormwater pits on the site, which flows into the municipal stormwater system and then into Cattai Creek approximately 130m southwest of the site.                                                                                                                                                                                                             |  |  |
| Regional Geology | The Department of Mineral Resources <i>Penrith 1:100,000 Geological Series Sheet 9030</i> indicates the site is underlain by Hawkesbury Sandstone ( <i>Rh</i> ), consisting of medium to very coarse-grained quartz sandstone, minor laminated mudstone and siltstone lenses.                                                                                                                                                                                                                              |  |  |
|                  | However, the eastern end of the site is close to a boundary with Ashfield<br>Shale (Rwa), consisting of dark-grey to black claystone-siltstone and fine<br>sandstone-siltstone laminite. The thin Mittagong Formation may or may not be<br>present between the Ashfield Sahel and Hawkesbury Sandstone.                                                                                                                                                                                                    |  |  |
| Soil Landscapes  | The Soil Conservation Service of NSW <i>Soil Landscapes of the Penrith</i> 1:100,000 Sheet (Bannerman SM and Hazelton PA, 1990) indicates that the eastern portion of the site overlies an erosional Glenorie ( <i>gn</i> ) soil landscape, characterised by undulating to rolling low hills on Wianamatta Group shales, while the western portion of the site overlies a colluvial Hawkesbury ( <i>ha</i> ) soil landscape, characterised by rugged, rolling to very steep hills on Hawkesbury Sandstone. |  |  |

Table 2-3 Regional Setting



| Attribute                        | Description                                                                                                                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acid Sulfate Soil Risk           | With reference to the <i>Prospect/Parramatta River Acid Sulfate Soil Risk Map</i> (1:25,000 scale; Murphy, 1997) and <i>The Hills Local Environmental Plan 2019</i> , the site is not situated in an ASS classed area. As such, ASS is unlikely to be encountered during development works at the site. |
|                                  | The contamination report previously prepared for the site (JBS&G, 2019) also concluded that no further management for the potential presence of ASS is required during future ground disturbance works.                                                                                                 |
| Salinity Potential               | Based on the DIPNR (2003) <i>Salinity Potential in Western Sydney Map 2002</i> , the site is situated within an area of very low to moderate salinity potential. EI conducted a salinity assessment during this investigation, as discussed in <b>Section 8</b> .                                       |
| Nearest Surface Water<br>Feature | Cattai Creek, located approximately 130m southwest of the site.                                                                                                                                                                                                                                         |
| Groundwater Flow<br>Direction    | Interred to flow south-westerly towards Cattai Creek.                                                                                                                                                                                                                                                   |

### 2.4 Groundwater Bore Records and Groundwater Use

An online search of groundwater bores registered with WaterNSW was conducted by EI on 31 July 2020 (Ref. <u>https://realtimedata.waternsw.com.au/water.stm</u>). There was one registered bore within a 500 m radius of the site, as summarised in **Table 2-4**. A groundwater bore location plan and detailed information are presented in **Appendix D**.

| Table 2-4 | Summary of | f Proximate     | Registered | Groundwater Bores |
|-----------|------------|-----------------|------------|-------------------|
|           | Summary O  | I I I UXIIIIate | Negistereu | Groundwater Dores |

| Bore No. | Distance &<br>Direction | Date Drilled | Drilled Depth<br>(m) | SWL(m BGL) /<br>Salinity | Bore Purpose    |
|----------|-------------------------|--------------|----------------------|--------------------------|-----------------|
| GW107601 | 150m northwest          | 24.10.2002   | 35.34                | -/-                      | Monitoring bore |

Contamination report prepared by JBS&G (2019) also identified one groundwater bore (GW100981) approximately 550m northeast from the site, which was authorized for domestic use. The water table (as indicated by standing water levels, SWL) was recorded at 8.0m BGL.

Therefore it is anticipated that groundwater is present at a shallow to moderate depth below the site.

#### 2.5 Site Inspection

Site observations were recorded during an inspection of the site on 8 July 2020. These are summarised below. Site photographs taken during the inspection are presented in **Appendix E**.

- The site was a rectangular vacant block, secured by construction hoarding and security fencing (**Photograph 6**). It was situated at the north side of the Hills Showground Metro Station.
- The site was found to be elevated above the surrounding land, which displayed a moderate downslope towards the southwest. Constructed batters were present along the site boundaries, which elevated the site at up to approximately 1-1.5m above the surrounding roads (**Photographs 3** and **5**).
- The whole site was vacant, cleared of all structures. The ground surface was covered by exposed fill materials (**Photographs 1, 2** and **4**).
- Limited vegetation was present on the site. The vegetation did not appear stressed.



- Constructed stormwater pits were present along the site boundaries (**Photograph 5**), collecting surface runoff to the municipal stormwater system.
- No unusual odours were detected during the inspection. No visual signs of contamination (i.e. cement sheet fragments) were identified on site surfaces.
- No evidence of an underground petroleum storage system (UPSS), or an underground storage tank (UST), was observed on the site.
- Surrounding areas consisted of Castle Hill Showground to the north, Hills Showground Precinct East and Hills Showground Precinct West to the east and west, and Hills Showground Metro Station to the south. Residential properties were mainly present to the south, east and north of the site, while commercial properties were mainly to the west of the site.
- There was no NSW Fire and Rescue Station (or Training College) in the vicinity (<100m) of the site.



# 3. Previous Investigations

EI was provided with previous investigation reports carried out within portions of the Hills Showground Station Precinct development area, including:

- JBS&G (2009) Phase 1 and 2 Environmental Site Assessment,
- JBS&G (2013) Contamination Due Diligence Advice, Former Hills Shire Depot, Carrington Road, Castle Hill, NSW, Report Ref. 42829/54994 (Rev1), dated 26 August 2013;
- Arup (2015) *Showground Precinct Desktop Contamination Review*, dated 1 September 2015;
- Douglas Partners (2016) Report on UST Validation Sydney Metro Northwest, Showground Station, Carrington Road, Castle Hill NSW, Ref. 73315.03.R.001.Rev0.UST Validation, dated 6 May 2016; and
- JBS&G (2019) Soil and Contamination Report, Ref. 54813/125497 (Rev1), dated 29 October 2019.

The JBS&G (2009 and 2013), Arup (2015) and DP (2016) investigations referenced above were conducted at the former Hills Council Depot (now Hills Showground Precinct West and the newly constructed commuter car park to the west of the site).

The JBS&G (2019) report identified that significant ground disturbance occurred at the site (Doran Drive Precinct) as a results of Sydney Metro North West (SMNW) Project activities ('Metro Northwest Link') and concluded that further contamination assessment was required. A summary of works and key findings from this report is outlined in **Table 3-1**.

| Table 3-1 | Summary of    | Provinue | Investigation | Worke | and Findings |
|-----------|---------------|----------|---------------|-------|--------------|
|           | Ourrinally Of | 11041043 | mvconganon    | WOIN3 | ana i manigo |

| Assessment<br>Details | Project Tasks and Findings                                                                                                                                                                                                                                                                               |  |  |  |  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Soil and Contamir     | nation Report (JBS&G, 2019)                                                                                                                                                                                                                                                                              |  |  |  |  |
| Objectives            | <ul> <li>Collate and review available data, including previous investigations and supplement<br/>this with current information to identify areas of potential environmental concern<br/>(AECs) and associated contaminants of potential concern (COPCs) as may be<br/>present at the site;</li> </ul>    |  |  |  |  |
|                       | <ul> <li>Review and document regional geological, hydrogeological, topographical and<br/>services infrastructure information to identify site media and potential contaminant<br/>transportation pathways at the site;</li> </ul>                                                                        |  |  |  |  |
|                       | <ul> <li>Identify potential data gaps across the site and assess the potential for near surface<br/>contamination as a result of the SMNW works;</li> </ul>                                                                                                                                              |  |  |  |  |
|                       | <ul> <li>Address the key contamination issues in the SEARs and the requirements of SEPF<br/>55 to demonstrate the suitability of the site for development, or provide<br/>recommendations that will enable the site to be considered suitable prior to<br/>commencement of future use(s); and</li> </ul> |  |  |  |  |
|                       | <ul> <li>Develop and document a preliminary conceptual site model (CSM) of<br/>contamination to facilitate comments on potential issues that may require further<br/>consideration, including assessment, management and/or remediation to make the<br/>site suitable for its proposed uses.</li> </ul>  |  |  |  |  |
| Scope of Works        | The site comprised of three development precincts, including the Hills Showground<br>Precinct West, Doran Drive Precinct and Hills Showground Precinct East. The scope<br>of works included:                                                                                                             |  |  |  |  |



| Assessment<br>Details              | Project Tasks and Findings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <ul> <li>A review of available historical site use, background information and previous<br/>investigations to identify potential areas of environmental and chemical concern;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                    | <ul> <li>Review and collation of available regional and site specific information in relation t<br/>geology, hydrogeology, etc. including previous environmental and geotechnical sit<br/>investigation data to confirm site conditions and the presence of potential AECs;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                    | <ul> <li>Development of a site-wide CSM based on the available information specific to the<br/>site; and</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                    | <ul> <li>Preparation of a preliminary environmental site assessment report in general<br/>accordance with relevant EPA Guidelines.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Site History                       | Review of available site history indicated the majority of the site was historically<br>utilised as rural residential and agricultural (orchards) land prior to being acquired by<br>the Baulkham Hills Shire Council between the 1960s and 1970s. Until approximately<br>2013, the site was used for a combination of public open space (playing fields) prior<br>use for commercial (office spaces and performing arts centre) and industrial (use as<br>Council Depot) activities. The site was transferred Transport for NSW in 2013<br>following which the central and western portions have undergone redevelopment<br>works associated with the construction of the SMNW Project train tunnels and statio<br>infrastructure.                                                                                                                      |
| Conclusions and<br>Recommendations | <ul> <li>Prior to the commencement of the SMNW Project activities, the site comprised<br/>three main areas: the Hills Shire Council Chambers and Administration building ar<br/>surrounds (Hills Showground Precinct East); the former performing arts centre and<br/>associated car parking area (central portion including Showground Station and<br/>Doran Drive Precinct); and the Council Works Depot (Hills Showground Precinct<br/>West and constructed carpark infrastructure).</li> </ul>                                                                                                                                                                                                                                                                                                                                                       |
|                                    | Historical site investigation reports available for assessment were limited to the former Council Works Depot footprint. These investigations identified the presence of small scale soil and groundwater contamination and underground fuel infrastructure (considered significant point sources of potential contamination), prior to the commencement of the SMNW Project activities. Records obtained from SafeWork NSW and validation documentation have indicated removal of the majority of the identified fuel infrastructure. Notwithstanding, in the absence of further validation documentation and/or a RAP as may have been prepared as required by Project Approval consent conditions, there remains uncertainty on the fate of previously identified asbestos impacts and the current contamination status of this portion of this site. |
|                                    | <ul> <li>In addition, significant ground disturbance works have been completed within the<br/>central portion of the site (Doran Drive Precinct) during the SMNW Project activitie<br/>This site portion is currently surfaced with exposed fill material. Subject to the<br/>availability of validation documentation confirming the status of ground conditions<br/>this portion of the site, there is also a remaining data gap as to the current<br/>characterisation of this site portion given the potentially contaminating activities the<br/>have occurred within this area.</li> </ul>                                                                                                                                                                                                                                                         |
|                                    | <ul> <li>Within the eastern portion of the site, occupied by the former Council Chambers<br/>and Administration building, the potential for site contamination has been identified<br/>as relatively low, being associated with historical agricultural/open space<br/>management, the historical use of hazardous building materials (asbestos and lea<br/>paint) and the potential presence of limited profile of fill material of unknown origin<br/>However, the absence of existing characterisation data, again remains an open<br/>data gap with regard to drawing conclusions on the suitability of the site for the<br/>proposed landuses.</li> </ul>                                                                                                                                                                                           |



| Assessment<br>Details | Project Tasks and Findings                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                       | for the proposed land uses, subject to implementation of an appropriate staged<br>data gap contamination assessment (that may include verification reviews of<br>SMNW stage validation reports) and appropriate management of any small scale<br>remaining contamination issues in accordance with NSW EPA guidance as<br>appropriate prior to commencement of future final construction activities. |  |  |  |  |
|                       | <ul> <li>Review of acid sulfate soil (ASS) conditions identified there is no appreciable risk of<br/>ASS presence within natural residual soils at the site given the formation<br/>environment, and therefore no future management for the potential presence of<br/>ASS is required during future ground disturbance works.</li> </ul>                                                             |  |  |  |  |



# 4. Site History and Searches

# 4.1 Land Titles Information / Historical Aerial Photography Review

A historical title and aerial photography review of the Hills Showground Station Precinct development area was carried out by JBS&G (2019) as summarised in **Section 3**. A summary of the information obtained from the historical aerial photographs in relation to the history of the site is presented in **Table 4-1** below.

| Table 4-1            | Summary of Aerial Photograph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Aerial<br>Photograph | Site Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Land Use                                  |
| 1930                 | The site appeared to consist of densely timbered vegetation, rural residential properties and agricultural land.<br>Surrounding areas appeared to be used for similar rural residential / agricultural purposes, with orchard groves noted to the east, south and west of the site. The Castle Hill Showground was located to the north of the site.                                                                                                                                                                                                                                                                                                                                                                                                 | Rural residential<br>/ agricultural       |
| 1950                 | The site was largely cleared of timbered vegetation. The majority of the site appeared to be covered by grass. Previous rural residential structures remained unchanged.<br>Surrounding areas were also largely cleared of vegetation and orchards. A series of sheds were constructed to the west of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rural residential<br>/ vacant             |
| 1961                 | The site appeared to be unchanged (consistent with the 1950 image).<br>Surrounding areas were largely unchanged, with the exception of some<br>scattered timber and/or waste materials noted to the east of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rural residentia<br>/ vacant              |
| 1970                 | Previous rural residential properties had been demolished. The land<br>appeared to be largely vacant with a turfed football field constructed in the<br>eastern portion of the site.<br>Surrounding areas to the east was also part of the new playing field. More<br>stockpiled timber/waste materials were noted to the east of the site. More<br>sheds were constructed within the Castle Hill Showground (north of the site).                                                                                                                                                                                                                                                                                                                    | Vacant / part of<br>the playing field     |
| 1986                 | The site was largely vacant. The playing field had been removed from the site and replaced by an oval sports track. The south-western corner of the site appeared to be used for car parking.<br>Surrounding areas appeared to be undergoing redevelopment. Doran Drive had been constructed to the west of the site (forming the western site boundary). Beyond was the Council Depot, comprising two warehouse structures and associated car parking at grade. The Council Chambers had been constructed to the east of the site (consistent with the current structures). More residential properties were constructed to the south, east and north of the site, while commercial/industrial warehouses were constructed to the west of the site. | Vacant / car<br>parking                   |
| 1994                 | A large square-shaped building was constructed in the eastern portion of the site and a L-shaped building was present in the north-western site corner. The reminder of the site consisted of handstand pavements and landscaping areas.<br>Surrounding areas were largely unchanged. The current metro station area (south of the site) appeared to be part of the car parking and landscaping area.                                                                                                                                                                                                                                                                                                                                                | Commercial<br>(performing arts<br>centre) |

Table 4-1 Summary of Aerial Photograph



| Aerial<br>Photograph | Site Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Land Use                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 2002, 2009,<br>2012  | The site appeared to be unchanged.<br>Surrounding areas were largely unchanged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Commercial<br>(performing arts<br>centre) |
| 2014                 | Previous site structures had been demolished. The site appeared to be<br>redeveloped, as associated with initial SMNW Project works. Two large<br>warehouse buildings were constructed in the western portion and eastern<br>corner of the site and two constructed water treatment basins were present<br>in the central portion of the site. An above ground storage tank (AST)<br>(potentially water/concrete batching) was constructed in the north-eastern<br>site corner.                                                                    | Construction<br>storage yard              |
|                      | An elongated excavation had been formed adjacent to the southern site<br>boundary (Carrington Road), as associated with the construction of<br>underground railway infrastructure. The Council Depot area to the west of<br>the site appeared to be utilised as a storage compound for adjacent SMNW<br>redevelopment activities. Two water retention ponds were noted to the<br>southwest and northwest of the site. The Council Chambers to the east of<br>the site appeared to be unchanged.                                                    |                                           |
| 2015                 | A network of shafts was observed onsite which led to a storage yard/load<br>out area where presumably excess spoil was being transported off-site. A<br>series of cylindrical black plastic storage tanks and several tall sheet metal<br>ASTs had been installed adjacent to the AST and water treatment basins,<br>indicative of a water treatment plant.                                                                                                                                                                                        | Construction<br>storage yard              |
|                      | Further material/equipment storage was present within the Council Depot area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| 2016                 | The network of shafts and the large warehouse (western portion) had been removed from the site, indicating bulk subsurface excavation of the Hills Showground Station had likely been completed. The series of plastic and sheet metal ASTs (water treatment plant) had also been removed. The single large AST and two water treatment basins remained onsite. The site appeared to be utilised as material/equipment storage yard. The shadowing in this image indicated that several ground levels occurred within the site during this period. | Construction<br>storage yard              |
|                      | Surrounding areas were largely unchanged, with the exception of former site structures had been demolished within the Council Depot area.                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |
| 2017                 | A significant increase in material storage had occurred onsite, with several large stockpiles of soil observed within the central portion of the site.<br>The former Council Depot area was also utilised as an equipment holding and storage yard.                                                                                                                                                                                                                                                                                                | Construction storage yard                 |
| 2018                 | Significant materials storage activities were in progress within the site.<br>The commuter car park to the west of the site was undergoing construction.<br>Construction of the Hills Showground Metro Station (built form) had begun,<br>with the placement of concrete slab panels across the majority of the open<br>excavation.                                                                                                                                                                                                                | Construction<br>storage yard              |
| 2019                 | The current site configuration had been established. The streets around the site had been constructed, sealed with hardstand pavement and lined with landscaped garden beds and vegetation. The site was cleared of all structures and filled to raise the level, with constructed batters noted along the site boundaries. Several minor stockpiles of soil/waste were noted on the ground surface.                                                                                                                                               | Vacant                                    |



| Aerial<br>Photograph | Site Description                                                         | Land Use |
|----------------------|--------------------------------------------------------------------------|----------|
|                      | The construction of the Showground Metro Station (south of the site) and |          |

The construction of the Showground Metro Station (south of the site) and commuter carpark (west of the site) had been completed.

In summary, key findings related to the site indicated that the site was historically used as rural residential, agricultural, vacant pastoral and public open space (playing fields) until the late 1980s. The site was then developed into a commercial property (the former performing arts centre) between the 1990s and 2010s. Since 2013, significant ground disturbance works (bulk earthworks and material storage) have been completed as a result of the SMNW Project activities. The site was used for a holding and processing yard, which included excavated water treatment basins, material/equipment storage and site sheds (shown in **Photograph 4-1** below). During 2019, the current site configuration was established. The water treatment basins were removed and the site surface was significantly filled and raised above the surrounding land, as shown in **Photograph 4-2** below.



Photograph 4-1: Aerial photograph of the site showing previous site structures during the SMNW Project works (central portion of the development area) (dated 24/12/2014, Google Earth)





Photograph 4-2: Aerial photograph of the site showing established site configuration and levelled surface (dated 07/04/2019, Nearmap)

## 4.2 EPA Online Records

Searches of public registers maintained by the EPA for statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997* were conducted by EI for this DSI.

#### 4.2.1 Record of Notices Under Section 58 of CLM Act 1997

An on-line search of the contaminated land public record was conducted on 31 July 2020. The contaminated land public record is a searchable database of:

- Orders made under Part 3 of the CLM Act 1997;
- Notices available to the public under Section 58 of the CLM Act 1997;
- Approved voluntary management proposals under the CLM Act 1997 that have not been fully carried out and where the approval of the EPA has not been revoked;
- Site audit statements provided to the EPA under Section 53B of the CLM Act 1997 that relate to significantly contaminated land;
- Where practicable, copies of anything formerly required to be part of the public record; and
- Actions taken by the EPA under Section 35 or 36 of the Environmentally Hazardous Chemicals Act 1985 (the EHC Act 1985).

The search confirmed that the site and surrounding lands within close proximity (≤250m) were not subject to any regulatory notices relevant to the above legislations.

#### 4.2.2 List of NSW Contaminated Sites Notified to EPA

A search through the *List of NSW Contaminated Sites Notified to the EPA* under Section 60 of the CLM Act 1997 was conducted on 31 July 2020. This list is maintained by the EPA and



includes properties on which contamination has been identified, but not deemed to be impacted significantly enough to warrant regulation. The site and surrounding lands within close proximity (≤250m) had not been notified as contaminated to the EPA (i.e. were not included in the list).

#### 4.2.3 POEO Public Register

A search of the *Protection of the Environment Operations Act 1997* public register was conducted on 31 July 2020. This public register contains records related to environmental protection licences, applications, notices, audits, pollution studies and reduction programs. The search confirmed that the site and surrounding lands within close proximity (<250m) were not subject to any licensing agreements / notices / programs etc. relevant to this legislation.



# 5. Conceptual Site Model

### 5.1 Overview

In accordance with NEPC (2013) Schedule B2 – Guideline on Site Characterisation and to aid in the assessment of data collected for the site, EI developed a conceptual site model (CSM) that assessed plausible linkages between potential contamination sources, migration pathways, and receptors. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify gaps in the existing site characterisation.

## 5.2 Subsurface Conditions

The sub-surface conditions across the site were expected to be a layer of fill, overlying natural clay and shale / sandstone bedrock. Groundwater was likely to be at a shallow to moderate depth below the site, flowing in a south-westerly direction towards Cattai Creek.

## 5.3 Potential Contamination Sources

On the basis of the DSI findings, potential contamination sources were as follows:

- Unknown type and concentration of contaminants within imported fill soils across the site;
- Hazardous building materials (including potential asbestos) present in the site soils as a result of historic demolitions;
- Historical pesticide use;
- Spills or leaks associated with former onsite storage of material/equipment;
- Former AST in the north-eastern site corner; and
- Former water treatment basins in the central portion of the site.

#### 5.3.1 **PFAS** Assessment

EPA (2017) requires that PFAS are considered in assessing land contamination. A desktop survey of the probability for PFAS occurrence is provided in **Table 5-1**. This survey is based on guidelines from the *PFAS National Environmental Management Plan* (NEMP 2020). From this survey a decision can be made as to whether PFAS sampling of soil and groundwater is required. In this instance, the potential for PFAS to be present on-site was low and subsequently PFAS sampling / analysis of soil and water was unwarranted.

| Preliminary Screening                                                                                                                                                                             | Probability of Occurrence <sup>1</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Is the past or present site activity listed in the NEMP $(2020)^2$ as being an activity associated with PFAS contamination. If so list activity: N/A                                              | L                                      |
| Is the past or present off-site activity up-gradient or adjacent to the site listed in the NEMP (2020) <sup>2</sup> as being an activity associated with PFAS contamination. If so list activity: | L                                      |
| Did fire training involving the use of suppressants occur on-site between 1970 and 2010?                                                                                                          | L                                      |
| Did fire training occur up-gradient of or adjacent to the site between 1970 and 2010? <sup>3</sup>                                                                                                | L                                      |

Table 5-1 PFAS Decision Tree



| Preliminary Screening                                                                                                                                                                                      | Probability of<br>Occurrence <sup>1</sup> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Have "fuel" fires ever occurred on-site between 1970 and 2010? e.g. ignition of fuel (solvent, petrol, diesel, kero) tanks?                                                                                | L                                         |
| Have PFAS been used in manufacturing or stored on-site ?4                                                                                                                                                  | L                                         |
| Could PFAS have been imported to the site in fill materials from a site with activity listed in NEMP (2020)?                                                                                               | L                                         |
| Could PFAS-contaminated groundwater or run-off have migrated on to the site?                                                                                                                               | L                                         |
| Is the site or adjacent sites listed in the NSW EPA PFAS Investigation Program? $^5$                                                                                                                       | L                                         |
| If the probability is medium or high in any of the rows, does the site analytical suite need to be optimised to include preliminary sampling and testing for PFAS in soil (incl. ASLP testing) and waters? | No                                        |

Note 1 Probability: L – low (all necessary documentation has been reviewed and there is no recorded instance or compelling rationale), M – medium/moderate (all necessary documentation has been reviewed and there is potential evidence of a recorded instance with compelling rationale); H – high (all necessary documentation has been reviewed and there is evidence of a recorded instance with compelling rationale); risk, N/A – not applicable (or "-")].

Note 2 Activities listed in Appendix B of the NEMP (2020). Further information, refer to

https://www.oecd.org/env/ehs/risk-management/PFC\_FINAL-Web.pd

Note 3 Runoff from up-gradient PFAS use may impact surface water, soil, sediment and groundwater.

Note 4 PFAS is used wide range of industrial processes and consumer products, including in the manufacture of nonstick cookware, specialised garments and textiles, Scotchguard<sup>™</sup> and similar products (used to protect fabric, furniture, leather and carpets from oils and stains), metal plating and in some types of fire-fighting foam (<u>https://www.nicnas.gov.au/chemical-information/factsheets/chemical-name/perfluorinated-chemicals-pfas</u>).

Note 5 https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program

#### 5.3.2 Emerging Chemicals

The EPA uses Chemical Control Orders (CCOs) as a primary legislative tool under the EHC Act 1985 to control chemicals of concern and limit their potential impact on the environment. Considerations for chemicals controlled by CCOs, and other potential emerging chemicals, are outlined in **Table 5-2**. In this instance, the potential for an emerging chemical of concern to be present on-site was low and subsequently corresponding sampling / analysis of soil and water was unwarranted.

 Table 5-2
 Emerging or Controlled Chemicals

| Chemicals of Concern (CCO or emerging)                                                                                                             | Decision                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Were aluminium smelter wastes used or stored on site (CCO, 1986)?                                                                                  | No                                                                     |
| Do dioxin contaminated wastes (CCO, 1986) have the potential to impact the site? <sup>1</sup>                                                      | No                                                                     |
| Were organotin products (CCO, 1989) used or stored on site? <sup>2</sup>                                                                           | No                                                                     |
| Were polychlorinated biphenyls (PCBs) used or PCB wastes (CCO, 1997) stored on-site? <sup>3</sup>                                                  | No                                                                     |
| Were scheduled chemical or wastes (CCO, 2004) used or stored <sup>4</sup>                                                                          | Potential for small quantity pesticides to have been used on the land. |
| Are other emerging chemicals suspected? 5                                                                                                          | No                                                                     |
| If Yes to any questions, has site sampling suite been optimised to include specific sampling for other chemicals of concern in soil, air and water | -                                                                      |

Note 1 From burning of certain chemicals, smelting or chemical manufacturing or fire on or near the site.

Note 2 From anti-fouling paints used or removed at boat and ship yards and marinas.

Note 3 From older transformer oils and electrical capacitors

Note 4 Twenty-four mostly organochlorine pesticides and industrial by-products

Note 5 Other chemicals considered as emerging e.g. 1,4 dioxane (associated with some chlorinated VOCs).



# 5.4 Potential Contaminants

The potential contaminants at the site resulting from the site filling and previous site use were considered to be:

- Metals (M) arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc;
- Total Recoverable Hydrocarbons (TRH);
- Volatile Organic Compounds (VOC);
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAH);
- Organochlorine and Organophosphorus Pesticides (OCP/OPP);
- Polychlorinated Biphenyls (PCB); and
- Asbestos.

# 5.5 Potential Contamination in the Context of the Site

An assessment of the potential contamination risks for the site is outlined in Table 5-3.

| qualityPCB and asbestos(see logs, Appendix F).Hazardous buildingBuildingMetals (lead inLow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |              |                       |                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| unknown origin and<br>qualitygroundwaterPAH, OCP, OPP,<br>PCB and asbestosFilling was observed in all locations sample<br>(see logs, Appendix F).Hazardous building<br>products from<br>demolition of historic<br>site structuresBuilding<br>fabricMetals (lead in<br>particular), asbestos<br>and PCBLowHistorical pesticide useShallow soilMetals (arsenic),<br>OCP, OPPLowHistorical pesticide useShallow soilMetals (arsenic),<br>OCP, OPPLowFormer onsite storage<br>of material/equipmentSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts are likely to the soil layers and<br>groundwaterFormer vater treatment<br>basins in the central<br>portion of the siteSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts are likely and considered of moderate risk.Former water treatment<br>basins in the central<br>portion of the siteSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Potential spills and leaks from the former<br>water treatment basins are likely. The                                                                                                     | Potential Sources                       |              | •••••••               | Likelihood for Contamination                                                                                                                                                          |
| products from<br>demolition of historic<br>site structuresfabricparticular), asbestos<br>and PCBHistoric demolition of former structures hav<br>occurred onsite. However, given no visual<br>signs of contamination (i.e. cement sheet<br>fragments) was observed during site visit,<br>the overall risk is considered low.Historical pesticide useShallow soilMetals (arsenic),<br>OCP, OPPLow<br>If present, pesticides are expected to be<br>limited to shallow soils considering the<br>nature of their application.Former onsite storage<br>of material/equipmentSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts are likely to the soil layers and<br>groundwater groundwaterFormer AST in the<br>north-eastern site<br>cornerSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts to the soil layers and groundwater<br>are likely and considered of moderate risk.Former water treatment<br>basins in the central<br>portion of the siteSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Potential spills and leaks from the former<br>water treatment basins are likely. The | unknown origin and                      |              | PAH, OCP, OPP,        | Filling was observed in all locations sampled                                                                                                                                         |
| Former onsite storage<br>of material/equipmentSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts are likely to the soil layers and<br>groundwater given significant materials<br>storage activities happened onsite.Former AST in the<br>north-eastern site<br>cornerSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts are likely to the soil layers and<br>groundwater given significant materials<br>storage activities happened onsite.Former AST in the<br>north-eastern site<br>cornerSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts to the soil layers and groundwater<br>are likely and considered of moderate risk.Former water treatment<br>basins in the central<br>portion of the siteSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Potential spills and leaks from the former<br>water treatment basins are likely. The                                                                                                                                                                                                                   | products from<br>demolition of historic | 0            | particular), asbestos | Historic demolition of former structures have<br>occurred onsite. However, given no visual<br>signs of contamination (i.e. cement sheet<br>fragments) was observed during site visit, |
| Former AST in the<br>north-eastern site<br>cornerSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts are likely to the soil layers and<br>groundwater given significant materials<br>storage activities happened onsite.Former AST in the<br>north-eastern site<br>cornerSoils and<br>groundwaterMetals, TRH, VOCs,<br>BTEX, PAHModerate<br>Impacts to the soil layers and groundwater<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Historical pesticide use                | Shallow soil | · · · ·               | If present, pesticides are expected to be limited to shallow soils considering the                                                                                                    |
| north-eastern site<br>corner       groundwater       BTEX, PAH       Impacts to the soil layers and groundwater<br>are likely and considered of moderate risk.         Former water treatment<br>basins in the central<br>portion of the site       Soils and<br>groundwater       Metals, TRH, VOCs,<br>BTEX, PAH       Moderate<br>Potential spills and leaks from the former<br>water treatment basins are likely. The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | •                                       |              |                       | Impacts are likely to the soil layers and groundwater given significant materials                                                                                                     |
| basins in the central groundwater BTEX, PAH Potential spills and leaks from the former water treatment basins are likely. The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | north-eastern site                      |              | , , ,                 | Impacts to the soil layers and groundwater                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | basins in the central                   |              |                       | Potential spills and leaks from the former water treatment basins are likely. The                                                                                                     |



# 5.6 Potential Receptors

The following potential receptors of contamination from the site were identified as:

- Construction and maintenance workers;
- Users of the adjacent land during construction works;
- Future site users; and
- Ecological receptors in areas of exposed soil / landscaping.

#### 5.7 Preliminary Conceptual Site Model

A summary of EI's CSM, identifying the potential contamination sources, exposure pathways and human and environmental receptors is presented in **Table 5-4**.

#### 5.8 Data Gaps

Based on the CSM derived for the site and the qualitative assessment of risks, the degree of any contamination associated with the potential contamination sources identified in **Section 5.3** constitute current investigation data gaps. These data gaps will require further assessment by intrusive investigation to quantify possible risks to further site receptors.



| Potential Sources                                                                                                                                                              | Impacted<br>Media                                | Contaminants of<br>Potential Concern                                                                  | Transport mechanism                                                              | Exposure pathway                                                                                         | Potential receptor                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul> <li>Fill soils of unknown<br/>origin and quality</li> <li>Hazardous materials<br/>from demolition of<br/>historic structures</li> <li>Historical pesticide use</li> </ul> | Soil                                             | Metals, TRH, VOCs,<br>BTEX, PAH, OCP,<br>OPP, PCB and<br>asbestos                                     | OCP, soils during site redevelopment, future • Dermal contact                    | <ul> <li>Dermal contact</li> <li>Inhalation of particulates</li> <li>Inhalation of vapour</li> </ul>     | <ul> <li>Construction and maintenance<br/>workers</li> <li>Adjacent site users</li> <li>Future site users (within<br/>landscaping areas)</li> <li>Ecological receptors in areas of<br/>exposed soil / landscaping</li> </ul> |
| <ul> <li>Former onsite storage of<br/>material/equipment</li> </ul>                                                                                                            |                                                  |                                                                                                       | outdoor and indoor air spaces                                                    | _                                                                                                        |                                                                                                                                                                                                                              |
| <ul> <li>Former AST in the<br/>north-eastern site corner</li> </ul>                                                                                                            |                                                  |                                                                                                       | Volatilisation of contamination from soil<br>and diffusion to indoor air spaces  |                                                                                                          |                                                                                                                                                                                                                              |
| <ul> <li>Former water treatment<br/>basins in the central<br/>portion of the site</li> </ul>                                                                                   | Groundwater Dissolved Metals,<br>TRH, VOCs, BTEX | Volatilisation of contamination from groundwater to indoor or outdoor air spaces (onsite and offsite) | <ul><li>Ingestion</li><li>Dermal contact</li><li>Inhalation of vapours</li></ul> | <ul> <li>Construction and maintenance<br/>workers</li> <li>Future site users (basement users)</li> </ul> |                                                                                                                                                                                                                              |
|                                                                                                                                                                                |                                                  |                                                                                                       | Migration of dissolved phase impacts in groundwater                              | <ul> <li>Biota uptake</li> </ul>                                                                         | <ul> <li>Aquatic ecosystems</li> </ul>                                                                                                                                                                                       |
|                                                                                                                                                                                |                                                  |                                                                                                       | Potential seepage into deep basement intercepting water table (on and offsite)   | _                                                                                                        |                                                                                                                                                                                                                              |

### Table 5-4 Preliminary Conceptual Site Model



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# 6. Methodology

# 6.1 Sampling, Analysis and Quality Plan (SAQP)

The SAQP ensures that the data collected as part of this DSI, and ongoing environmental works carried out at the site are representative, and provide a robust basis for site assessment decisions. This SAQP includes the following:

- Data quality objectives, including a summary of the objectives of the DSI;
- Investigation methodology including media to be sampled, details of analytes and parameters to be monitored, and a description of intended sampling points;
- Sampling methods and procedures;
- Field screening methods;
- Laboratory analysis methods;
- Sample handling, preservation and storage; and
- Analytical QA/QC.

## 6.2 Data Quality Objectives (DQO)

In accordance with the US EPA (2006) *Data Quality Assessment* and the EPA (2017) *Guidelines for the NSW Site Auditor Scheme*, Data Quality Objectives (DQO) were established by the EI team to determine the appropriate level of data quality needed for the specific data requirements of the project. The DQO process that was applied for this assessment is documented in **Table 6-1**.



### Table 6-1 Summary of Project Data Quality Objectives

| DQO Steps                                                                                                                                                                                                      | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comments (changes during investigation)                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. State the Problem<br>Summarise the contamination problem that<br>will require new environmental data, and<br>identify the resources available to resolve<br>the problem; develop a conceptual site<br>model | <ul> <li>The site is to be redeveloped into multi-storey, mixed use commercial and residential apartment buildings with six-levels of basement, as outlined in Section 1.2.</li> <li>Historical information and site inspection observations identified the potential for soil and/or groundwater contamination due to various possible sources, as listed in Section 5.2. In light of the available historical information, a conceptual site model has been developed (Table 5-4) for the site.</li> <li>The findings of the investigation must provide supportive information on the environmental conditions of the site to determine the site's suitability for the proposed redevelopment.</li> </ul>                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                  |
| 2. Identify the Goal of the Study (Identify<br>the decisions)<br>Identify the decisions that need to be made<br>on the contamination problem and the new<br>environmental data required to make them           | <ul> <li>Based on the objectives outlined in Section 1.4, the following decisions are identified:</li> <li>Has the site been adequately characterised with sufficient and appropriate sampling coverage (vertical and lateral) to assess for the presence of potential contamination sources?</li> <li>Has the nature, source and extent of any onsite impacts (soil, groundwater, and/or vapour) been defined?</li> <li>What influence do site-specific, geologic conditions have on the fate and transport of any impacts that may be identified?</li> <li>Does the degree of impact coupled with the fate and transport of identified contaminants represent an unacceptable risk to identified human and/or environmental receptors on or offsite?</li> <li>Does the collected data provide sufficient information to allow the selection and design of an appropriate remedial strategy, assuming remedial action is necessary? If not, what are the remaining data gaps requiring closure?</li> </ul> | Given the site area (7,969 m <sup>2</sup> )<br>a minimum of 19 sampling<br>points is required (based on<br>NSW EPA Sampling Design<br>Guidelines). |
| 3. Identify Information Inputs (Identify<br>inputs to decision)<br>Identify the information needed to support<br>any decision and specify which inputs<br>require new environmental measurements               | <ul> <li>Inputs to the decision making process include:</li> <li>Proposed development and land use;</li> <li>Aerial photographs and historical information;</li> <li>Previous investigations;</li> <li>Areas of concern identified during the site inspection, prior to intrusive investigations;</li> <li>National and NSW EPA guidelines endorsed under the NSW Contaminated Land Management Act 1997;</li> <li>Investigation sampling (soils and/or groundwater) and laboratory analysis for potential contaminants to verify the presence of onsite contamination and to evaluate the potential risks to sensitive receptors; and</li> <li>At the end of the investigation, a decision must be made regarding whether the soils and/or groundwater are suitable for the proposed development, or if additional investigation or remedial works are required to make the site suitable for the proposed use.</li> </ul>                                                                                  | -                                                                                                                                                  |



| DQO Steps                                                                                                                                                                                                                                                                   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comments (changes during investigation) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>4. Define the Boundaries of the Study</b><br>Specify the spatial and temporal aspects of<br>the environmental media that the data must<br>represent to support decision                                                                                                  | <ul> <li>Lateral – the investigation will be conducted within the cadastral boundaries of the site (Figure 2).</li> <li>Vertical – Investigations will be advanced to the depth of natural soils or rock.</li> <li>Temporal – Results are valid on the day of data / sample collection and remain valid as long as no changes occur on site or contamination (if present) does not migrate on site or on to the site from off-site sources.</li> </ul>                                                                                                                                                                                                                                                                                                      | -                                       |
| 5. Develop the Analytic Approach<br>(Develop a decision rule)<br>To define the parameter of interest, specify<br>the action level, and integrate previous<br>DQO outputs into a single statement that<br>describes a logical basis for choosing from<br>alternative actions | <ul> <li>The decision rules for the investigation were:</li> <li>If the concentrations of contaminants in the soil and/or groundwater data exceed the adopted criteria; then assess the need to further investigate the extent of impacts onsite.</li> <li>Decision criteria for QA/QC measures are defined by the Data Quality Indicators (DQI) in Table 5-2.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   | -                                       |
| 6. Specify Performance or Acceptance<br>Criteria (Specify limits on decision<br>errors)<br>Specify the decision-maker's acceptable<br>limits on decision errors, which are used to<br>establish performance goals for limiting<br>uncertainties in the data                 | <ul> <li>Based on the qualitative data gathered via site history review and site walkover observations, a non-<br/>statistical judgemental sampling design was selected for performing soil and groundwater sampling. The<br/>sampling will target identified as areas of environmental concern (AEC) based identified contamination<br/>sources, known contaminants of concern, and professional judgement.</li> </ul>                                                                                                                                                                                                                                                                                                                                     | -                                       |
| 7. Develop the Detailed Plan for<br>Obtaining Data (Optimise the design for<br>obtaining data)<br>Identify the most resource-effective<br>sampling and analysis design for general<br>data that are expected to satisfy the DQOs                                            | <ul> <li>Conduct 19 soil sampling locations, distributed in a triangular grid pattern across the site.</li> <li>One round of groundwater sampling from the constructed four groundwater monitoring wells.</li> <li>An upper soil profile sample will be collected at each location and tested for chemicals of concern, to assess the environmental condition of the fill layer, and for potential impacts from historical, above-ground activities. Further sampling was also performed in deeper soil layers. Samples were selected for analytical testing based on field observations (including visual and olfactory evidence).</li> <li>Representative groundwater samples will be collected and analysed for groundwater characterisation.</li> </ul> | -                                       |



# 6.3 Data Quality Indicators

To ensure that the investigation data collected was of an acceptable quality, the investigation data set was assessed against the data quality indicators (DQI) outlined in **Table 6-2**, which related to both field and laboratory-based procedures. The assessment of data quality is discussed in **Section 7**.

Table 6-2 Data Quality Indicators

| QA/QC Measure                                                                                                                               | Data Quality Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precision</b> – A quantitative<br>measure of the variability<br>(or reproducibility) of data                                             | <ul> <li>Data precision would be assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Data precision would be deemed acceptable if RPDs are found to be less than 30%. RPDs that exceed this range may be considered acceptable where:</li> <li>Results are less than 10 times the limits of reporting (LOR).</li> <li>Results are less than 20 times the LOR and the RPD is less than 50%.</li> <li>Heterogeneous materials or volatile compounds are encountered.</li> <li>In cases where RPD values were considered unacceptable, the analytical results of primary and duplicate samples were both reviewed against the adopted assessment criteria. If the review indicates the variations in data between the primary and duplicate samples would result in a different conclusion (e.g. the higher concentration is failing the assessment criteria), the need for re-sampling / validation would be considered.</li> <li>Duplicate samples are to be collected at a rate of 5% (1 duplicate sample per 20 samples collected).</li> </ul> |
| Accuracy – A quantitative<br>measure of the closeness<br>of reported data to the<br>"true" value                                            | <ul> <li>Data accuracy would be assessed through the analysis of:</li> <li>Method blanks, which are analysed for the analytes targeted in the primary samples.</li> <li>Matrix spike and matrix spike duplicate sample sets.</li> <li>Laboratory control samples.</li> <li>Calibration of instruments against known standards.</li> <li>Variation in results reported by the primary and secondary laboratories for primary and duplicate samples.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Representativeness</b> – The<br>confidence (expressed<br>qualitatively) that data are<br>representative of each<br>medium present onsite | <ul> <li>To ensure the data produced by the laboratory is representative of conditions encountered in the field, the laboratory would carry out the following:</li> <li>Collect samples that are representative of the material being sampled and biased to any suspect locations based on physical evidence.</li> <li>Blank samples will be run in parallel with field samples to confirm there are no unacceptable instances of laboratory artefacts.</li> <li>Review of relative percentage differences (RPD) values for field and laboratory duplicates to provide an indication that the samples are generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities.</li> <li>The appropriateness of collection methodologies, handling, storage and preservation techniques will be assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).</li> <li>Consistency between field vapour screening information and laboratory results.</li> </ul>             |



| QA/QC Measure Data Quality Indicator                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Completeness</b> – A measure of the amount of                                                                                                             | Analytical data sets acquired during the assessment will be evaluated as complete, upon confirmation that:                                                                                                                                                                                                                                                                                                                                   |  |
| useable data from a data collection activity                                                                                                                 | <ul> <li>Standard operating procedures for sampling protocols were adhered to.</li> </ul>                                                                                                                                                                                                                                                                                                                                                    |  |
|                                                                                                                                                              | <ul> <li>Copies of all COC documentation are presented, reviewed and found to be<br/>properly completed.</li> </ul>                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                              | <ul> <li>It can therefore be considered whether the proportion of "useable data"<br/>generated in the data collection activities is sufficient for the purposes of the<br/>land use assessment.</li> </ul>                                                                                                                                                                                                                                   |  |
| <b>Comparability</b> – The<br>confidence (expressed<br>qualitatively) that data may<br>be considered to be<br>equivalent for each<br>sampling and analytical | Given that a reported data set can comprise several data sets from separate sampling episodes, issues of comparability between data sets are reduced through adherence to standard operation procedure and regulator-endorsed or published guidelines and standards on each data gathering activity. Sampling was conducted by the same sampler where possible to enhance project continuity and minimise variability in sampling technique. |  |
| event                                                                                                                                                        | Sampling under inclement weather conditions were avoided to minimise variability contributed by weather conditions.                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                              | Samples to be collected using procedures meeting NSW EPA endorsed guidelines.                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                              | In addition the data will be collected by experienced samplers and NATA-<br>accredited laboratory methodologies will be employed in all laboratory testing<br>programs.                                                                                                                                                                                                                                                                      |  |
| Required Sampling                                                                                                                                            | <ul> <li>Intra-laboratory Duplicate – 1 in 20 samples</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |  |
| Frequency                                                                                                                                                    | <ul> <li>Inter-laboratory Duplicate – 1 in 20 samples</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                                                                                                              | <ul> <li>Rinsate Blanks – 1 per batch where non-dedicated sampling equipment used</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |  |
|                                                                                                                                                              | <ul> <li>Trip Blanks – 1 sample per batch</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                              | Trip Spike – 1 sample per batch                                                                                                                                                                                                                                                                                                                                                                                                              |  |

#### 6.4 Sampling Rationale

With reference to the CSM described in **Section 5.7**, soil and groundwater investigations were planned in accordance with the following rationale:

- Sampling of the widespread fill and underlying natural soils from 19 locations, distributed in a triangular grid pattern across the site;
- Installation of four groundwater monitoring wells in targeted locations and a single groundwater monitoring event (GME) to assess the impacts (if any) to groundwater; and
- Laboratory analysis of representative soil and groundwater samples for the identified potential contaminants.

#### 6.5 Assessment Criteria

The assessment criteria proposed for this project are outlined in **Table 6-3**. These were selected from available published guidelines that are endorsed by national or state regulatory authorities, with due consideration of the exposure scenarios that are expected for various parts of the site, the likely exposure pathways, and the identified potential receptors.



| Table 6-3 | Adopted Investigation Levels for Soil and Groundwater |
|-----------|-------------------------------------------------------|
|           |                                                       |

| Environmental<br>Media | Adopted<br>Guidelines                                             | Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil                   | NEPM (2013)                                                       | Soil Health-based Investigation Levels (HILs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        | Soil HILs, EILs,<br>HSLs, ESLs &<br>Management Limits<br>for TPHs | NEPM (2013) HIL-A thresholds for residential with<br>garden/accessible soil were applied to assess the site as the<br>most conservative approach.<br>Soil Health-based Screening Levels (HSLs)                                                                                                                                                                                                                                                                                                                                     |
|                        | DLWC (2002)                                                       | As a conservative approach, the NEPM (2013) Soil HSL-A&B thresholds for vapour intrusion at low to high density residential sites were applied to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene.                                                                                                                                                                                                                                                                      |
|                        |                                                                   | For asbestos:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        |                                                                   | <ul> <li>No visible asbestos for surface soils.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                        |                                                                   | <ul> <li>HSL-A: for bonded ACM.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                        |                                                                   | <ul> <li>0.001% w/w for friable asbestos in soil.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        |                                                                   | Ecological Investigation Levels (EILs) / Ecological<br>Screening Levels (ESLs)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                        |                                                                   | All soil samples would also be assessed against the NEPM (2013) EILs for urban residential and public open space land us as a conservative approach. EILs / ESLs only apply to the top 2 m (root zone). The derived EIL criteria presented by EI are calculated based on the average results of pH (6.1) and CEC (7.8 meq/100g). The adopted ESL criteria presented by EI are based on fine grained criteria.                                                                                                                      |
|                        |                                                                   | Management Limits for Petroleum Hydrocarbons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        |                                                                   | Should the ESLs and HSLs be exceeded for petroleum hydrocarbons, soil samples would also assessed against the NEPM 2013 <i>Management Limits</i> for the TRH fractions F1 – F4 to assess propensity for phase-separated hydrocarbons (PSH) fire and explosive hazards & adverse effects on buried infrastructure.                                                                                                                                                                                                                  |
|                        |                                                                   | Soil Salinity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        |                                                                   | Soil salinity classes were calculated from the Indicators of Urba Salinity (DLWC).                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Groundwater            | NEPM (2013)<br>GILs for Fresh<br>Waters                           | <b>Groundwater Investigation Levels (GILs) for Fresh Water</b><br>NEPM 2013 provides GILs for typical, slightly-moderately<br>disturbed aquatic ecosystems, which are based on the ANZEC<br>& ARMCANZ 2000 Trigger Values (TVs) for the 95% level of<br>protection of aquatic ecosystems; however, the 99% TVs were<br>applied for the bio-accumulative metals <i>cadmium</i> and <i>mercury</i> .<br>The fresh water criteria were considered relevant as the Cattai<br>Creek was the closest surface water receptor to the site. |
|                        | NEPM (2013)<br>Groundwater HSLs<br>for Vapour Intrusion           | Groundwater Health-Based Screening Levels (HSLs)<br>As a conservative approach, HSL-A&B thresholds for vapour<br>intrusion in sand at low to high density residential sites were<br>applied for groundwater to assess potential human health<br>impacts from residual vapours resulting from petroleum, BTEX,<br>and naphthalene.                                                                                                                                                                                                  |



# 6.6 Soil Investigation

The soil investigation works conducted at the site are described in **Table 6-4**. Test bore locations are illustrated in **Figure 2**.

 Table 6-4
 Summary of Soil Investigation Methodology

| Activity/Item                            | Details                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fieldwork                                | Field works were conducted from 8 July to 22 July 2020 and comprised 19 soil sampling locations.                                                                                                                                                                                                                       |
| Investigation Method                     | Test bores BH1 to BH6 were drilled using a solid flight auger drilling rig, while test pits TP7 to TP19 were completed using an excavator.                                                                                                                                                                             |
| Soil Logging                             | Collected soils were classified in the field with respect to lithological characteristics and evaluated on a qualitative basis for odour and visual signs of contamination. Soil classifications and descriptions were based on Australian Standard (AS) 1726-2017. Logs are presented in <b>Appendix F</b> .          |
| Field Observations                       | A summary of field observations compiled during intrusive investigations is provided on the logs in <b>Appendix F</b> . Field observations are summarised in <b>Section 8.1.2</b> .                                                                                                                                    |
| Soil Sampling                            | <ul> <li>Soil samples were collected using a dry grab method (unused, dedicated nitrile<br/>gloves) &amp; placed into laboratory-supplied, acid-washed, solvent-rinsed glass<br/>jars.</li> </ul>                                                                                                                      |
|                                          | <ul> <li>Blind field duplicates were separated from the primary samples and placed into<br/>glass jars.</li> </ul>                                                                                                                                                                                                     |
|                                          | <ul> <li>A small amount of sample was separated from all fill samples and placed into a<br/>zip-lock bag for asbestos analysis.</li> </ul>                                                                                                                                                                             |
|                                          | <ul> <li>A small amount of duplicate was collected from each soil samples and placed<br/>into zip-lock bag for Photo-ionisation Detector (PID) screening.</li> </ul>                                                                                                                                                   |
| Decontamination<br>Procedures            | Nitrile sampling gloves were replaced between each sampling location.<br>Samples were collected from a different part of the solid flight auger and the auger<br>was cleaned from all residual soil waste between each location.                                                                                       |
| Sample Preservation                      | Samples were stored in a chilled chest (with frozen ice packs), whilst on-site and in transit to the laboratory. All samples were submitted and analysed within the required holding period, as documented in laboratory reports discussed in a later section.                                                         |
| Management of Soil<br>Cuttings           | Soil cuttings were used as backfill for completed boreholes and test pits.                                                                                                                                                                                                                                             |
| Quality Control &<br>Laboratory Analysis | A number of soil samples were submitted for analysis of previously-identified chemicals of concern by SGS Laboratories (SGS). QA/QC testing comprised intra-<br>laboratory duplicates ('field duplicates') tested blind by SGS and an inter-laboratory field duplicate tested blind by Envirolab Services (Envirolab). |
|                                          | All samples were transported under strict COC conditions and COC certificates and laboratory sample receipt documentation were provided to EI for confirmation purposes, as discussed in <b>Section 7</b> .                                                                                                            |
| Soil Vapour Screening                    | Screening for potential VOCs in collected soil samples was conducted using a pre-<br>calibrated Photoionisation Detector (PID) with a 10.6 mV ionisation lamp.                                                                                                                                                         |



# 6.7 Groundwater Investigation

The groundwater investigation works conducted at the site are described in **Table 6-5**. Monitoring well locations are illustrated in **Figure 2**.

| Table 6-5 | Summary of | Groundwater | Investigation | Methodology |
|-----------|------------|-------------|---------------|-------------|
|-----------|------------|-------------|---------------|-------------|

| Activity/Item                        | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Fieldwork                            | Groundwater monitoring wells were installed on 17, 21 & 22 July 2020.<br>Groundwater sampling for all the monitoring wells was conducted on 29 July 2020.<br>Additional sampling was conducted on 18 August 2020 for BH4M-a (after fulling<br>developing the well).                                                                                                                                                                                                                                                                 |  |
| Well Construction                    | Well construction details are summarised as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                      | <ul> <li>BH3M-a (located hydraulically down-gradient) installed to a total depth of 6.1<br/>mBGL (screened from 3.1-6.1 mBGL).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           |  |
|                                      | <ul> <li>BH4M-a (located hydraulically up-gradient) installed to a total depth of 7.7<br/>mBGL (screened from 4.7-7.7 mBGL).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                      | <ul> <li>BH5M (located hydraulically down-gradient) installed to a total depth of 6.5<br/>mBGL (screened from 2.5-6.5 mBGL).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                      | <ul> <li>BH7M (located hydraulically down-gradient) installed to a total depth of 4.9<br/>mBGL (screened from 1.9-4.9 mBGL).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                      | Well construction was in general accordance with the standards described in NUDLC (2012) and involved the following:                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                      | <ul> <li>50 mm, Class 18 uPVC, threaded, machine-slotted screen and casing;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                      | <ul> <li>Base and top of each well was sealed with a uPVC cap;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|                                      | <ul> <li>Annular, graded sand filter was used to approximately 300 mm above top of<br/>screen interval;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                      | <ul> <li>Granular bentonite was applied above annular filter to seal the screened interval;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                      | <ul> <li>Cuttings backfill just below ground level; and</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                      | Surface completion comprised a PVC stick-up pipe, with plastic cap.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Well Development                     | Well development was conducted for each well directly following installation. This involved agitation within the full length of the water column using a dedicated, HDPE, disposable bailer, followed by removal of water and accumulated sediment using a 12V, HDPE submersible bore pump (Proactive Environmental, model Super Twister). Pumping was continued until no further reduction in suspended sediment was observed (i.e. after removal of several well volumes).                                                        |  |
| Well Survey                          | No well survey having been completed at the site. The monitoring well locations were compared to the reduced levels (mAHD) given on the survey plan (see <b>Appendix C</b> ).                                                                                                                                                                                                                                                                                                                                                       |  |
| Well Gauging and<br>Groundwater Flow | Monitoring wells were gauged for standing water level (SWL) prior to sampling at the commencement of the GME on 29 July 2020.                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Direction                            | Based on the water level measured at each monitoring well ( <b>Table 8-3</b> ), groundwater was inferred to flow south-westerly.                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Well Purging and Field<br>Testing    | No volatile or organic odours were detected during any stage of well purging or sampling. The measurement of water quality parameters was conducted repeatedly during purging and the details were recorded onto field data sheets, once water quality parameters stabilised. Field measurements for Dissolved Oxygen (DO), Electrical Conductivity (EC) and pH of the purged water were also recorded during well purging. Purged water volumes removed from each well and field test results are summarised in <b>Table 8-3</b> . |  |



| Activity/Item                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Groundwater sampling                       | Groundwater was sampled using a micro-purge system (with the exception of the additional round of sampling for BH4M-a, which was sampled using a HDPE base for heavy metal testing only). Water was continuously measured for four parameters (Temperature, EC, Redox, DO, pH). Once three consecutive field measurements were recorded for the purged waters to within $\pm$ 10% for DO, $\pm$ 3 for EC, $\pm$ 0.2 for pH, $\pm$ 0.2° for temperature and $\pm$ 20 for redox, this was considered to indicate that representative groundwater quality had been achieve and final physio-chemical measurements were recorded. Groundwater samples were then collected from the micro-purge sampling pump discharge point. |  |  |
| Decontamination<br>Procedure               | <ul> <li>The micro-purge pump is decontaminated in a solution of potable water and Decon 90 and then rinsed with potable water between each location.</li> <li>The micro-purge system employs a disposable bladder and tubing system to further minimise potential cross contamination.</li> <li>All sample containers were supplied by the laboratory and were only opened once, immediately prior to sampling.</li> <li>Ice packs kept in an insulated chest were used to keep the samples cool; and</li> <li>The water level probe and sampling kit were washed in a solution of potable water and Decon 90 and then rinsed with potable water between uses.</li> </ul>                                                |  |  |
| Sample Preservation                        | <ul> <li>Sample containers were supplied by the laboratory with the following preservatives:</li> <li>One, 1 litre amber glass, acid-washed and solvent-rinsed bottle;</li> <li>Two, 40ml glass vials, pre-preserved with dilute hydrochloric acid, Teflon-sealed; and</li> <li>One, 250mL, HDPE bottle, pre-preserved with dilute nitric acid (1 mL).</li> <li>Samples for metals analysis were field-filtered using 0.45 µm pore-size filters. All containers were filled with sample to the brim then capped and stored in ice-filled chests, until completion of the fieldwork and during sample transit to the laboratory.</li> </ul>                                                                                |  |  |
| Sample Transport                           | After sampling, the ice brick filled coolers were transported to SGS Australia Pty Ltd using Chain-of-Custody (COC) procedures. Inter-laboratory duplicate (ILD) samples were forwarded to Envirolab Services Pty Ltd (Envirolab) for QA/QC analysis. A Sample Receipt Advice (SRA) was provided by each laboratory to document sample condition upon receipt. Copies of SRA and COC certificates are presented in <b>Appendix H</b> .                                                                                                                                                                                                                                                                                    |  |  |
| Quality Control and<br>Laboratory Analysis | All groundwater samples were submitted for analysis of previously-identified chemicals of concern by SGS Laboratories (SGS). QA/QC testing comprised intra-<br>laboratory duplicates ('field duplicates') tested blind by SGS and an inter-laboratory field duplicate tested blind by Envirolab Services (Envirolab). All samples were transported under strict Chain-of-Custody (COC) conditions and COC certificates and laboratory sample receipt documentation were provided to EI for confirmation purposes.                                                                                                                                                                                                         |  |  |



# 7. Data Quality Assessment

### 7.1 Quality Control Process

The assessment of data quality is defined as the scientific and statistical evaluation of environmental data to determine if the data meets the objectives for the project (USEPA 2006). Data quality assessment included an evaluation of the compliance of the field sampling, field and laboratory duplicates and laboratory analytical procedures and an assessment of the accuracy and precision of these data from the laboratory quality control measurements. The findings of the data quality assessment in relation to the current investigation at the site are discussed in detail in **Appendix J**.

The QC measures generated from the field sampling and laboratory analytical program are summarised in **Table 7-1**.

| Data Quality     | Control                                                                                                      | Conformance<br>[Yes, Part, No] | Report<br>Sections                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|
| Preliminaries    | Data Quality Objectives established                                                                          | Yes                            | See DQO/DQI,<br>Section 6.2,6.3                                             |
| Field work       | Suitable documentation of fieldwork<br>observations including borehole logs,<br>sample register, field notes | Yes                            | See Appendix F & G                                                          |
| Sampling<br>Plan | Use of relevant and appropriate sampling plan (density, type, and location)                                  | Yes                            | See sample rationale,<br>Section 6.4                                        |
|                  | All media sampled and duplicates collected                                                                   | Part                           | See Appendix G and H,<br>BH7M did not have<br>enough water for<br>sampling. |
|                  | Use of approved and appropriate sampling methods (soil, groundwater, air quality)                            | Yes                            | See methodology,<br>Section 6.6 and 6.7                                     |
|                  | Preservation and storage of samples upon collection and during transport to the laboratory                   | Yes                            | See methodology,<br>Section 6.6 and 6.7                                     |
|                  | Appropriate Rinsate, Field and Trip Blanks taken                                                             | Yes                            | See Appendix H                                                              |
|                  | Completed field and analytical laboratory sample COC procedures and documentation                            | Yes                            | See Appendix H                                                              |
| Laboratory       | Sample holding times within acceptable limits                                                                | Yes                            | See laboratory QA,<br>Appendix J.3                                          |
|                  | Use of appropriate analytical procedures and NATA-accredited laboratories                                    | Yes                            | See laboratory report,<br>Appendix I                                        |

Table 7-1 Quality Control Process



| Data Quality | Control                                                                                                                                                                            | Conformance<br>[Yes, Part, No] | Report<br>Sections                   |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|
|              | LOR/PQL low enough to meet adopted criteria                                                                                                                                        | Yes                            | See laboratory report,<br>Appendix I |
|              | Laboratory blanks                                                                                                                                                                  | Yes                            | See laboratory QA,<br>Appendix J.3   |
|              | Laboratory duplicates                                                                                                                                                              | Yes                            | See laboratory QA,<br>Appendix J.3   |
|              | Matrix spike/matrix spike duplicates (MS/MSDs)                                                                                                                                     | Yes                            | See laboratory QA,<br>Appendix J.3   |
|              | Surrogates (or System Monitoring Compounds)                                                                                                                                        | Yes                            | See laboratory QA,<br>Appendix J.3   |
|              | Analytical results for replicated samples,<br>including field and laboratory duplicates and<br>inter-laboratory duplicates, expressed as<br>Relative Percentage Difference (RPD)   | Yes                            | See laboratory QA,<br>Appendix J.3   |
|              | Checking for the occurrence of apparently<br>unusual or anomalous results, e.g.<br>laboratory results that appear to be<br>inconsistent with field observations or<br>measurements | Yes                            | See Appendices B and F               |
| Reporting    | Report reviewed by senior staff to assess<br>project meets desired quality, EPA<br>guidelines and project outcomes.                                                                | Yes                            | See document control                 |

#### 7.2 Quality Overview

On the basis of the field and analytical data validation procedure employed, the overall quality of the analytical data produced for the site was considered to be of an acceptable standard for interpretive use and preparation of a conceptual site model (CSM).



### 8. Results

#### 8.1 Soil Investigation Results

#### 8.1.1 Subsurface Conditions

The general site lithology encountered during the soil investigations may be described as a layer of anthropogenic filling, overlying residual clay and sandstone bedrock. More detailed description is summarised in **Table 8-1** and the logs from these works are presented in **Appendix F**.

| Table 8-1 | Generalised | Subsurface | Profile | (mBGL) |
|-----------|-------------|------------|---------|--------|
|-----------|-------------|------------|---------|--------|

| Layer    | Description                                                                                                                                                    | Average depth to top and bottom of layer (mBGL) |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
|          | Silty CLAY; low plasticity, pale grey to red brown/dark brown, with sandstone, gravels and sand, no odour.                                                     | 0.0-4.0                                         |
| Fill     | Gravelly SAND; fine to medium grained, brown, with gravels, clay, sandstone and foreign materials (brick, metal, concrete, plastic and steel wires), no odour. | 0.0-1.8                                         |
|          | Silty SAND; fine to medium grained, brown, with low plasticity clay and concrete fragments, no odour.                                                          | 0.0-2.0                                         |
| Residual | Silty CLAY; low to medium plasticity, light brown mottled orange, no odour.                                                                                    | 1.0-1.4                                         |
|          | Silty CLAY; medium plasticity, pale grey, with gravels and sand, grading to extremely weathered sandstone, no odour.                                           | 0.6-4.6                                         |
|          | Sandy CLAY; low to medium plasticity, pale grey and orange-brown, grading to extremely weathered sandstone, no odour.                                          | 2.6-5.0+                                        |
| Bedrock  | SANDSTONE; fine to medium grained, pale grey and orange-brown, low to medium strength, slightly to distinctly weathered, no odour.                             | 2.1-3.95+                                       |

+ Termination depth of test pit and borehole.

#### 8.1.2 Field Observations and PID Results

Soil samples were obtained from the test bores and test pits at various depths ranging between 0.1 to 5.0 mBGL. All examined soil samples were evaluated on a qualitative basis for odour and visual signs of contamination (e.g. hydrocarbon odours, oil staining, petrochemical filming, asbestos fragments, ash, charcoal) and the following observations were noted:

- Hydrocarbon odour was noted in fill at test pits: TP12 (from depth at 1.7m) and TP13 (from depth at 1.8m);
- Weak odour was noted in fill and natural soils at BH2 (from depth 1.0m to 2.0m);
- Steel wires were noted in fill at test pits: TP10, TP13 and TP15;
- Concrete footing was noted at the bottom of the test pit at TP 16; and
- VOC concentrations from collected soil samples were low, ranging between 0.3 and 1.6 parts per million (ppm). VOC concentrations were field-screened using a portable Photo-ionisation Detector (PID). The PID results are shown in the logs (Appendix F).



### 8.2 Groundwater Investigation Results

#### 8.2.1 Monitoring Well Construction

A total of four groundwater monitoring wells were installed on the site on 17, 21 &22 July 2020. Well construction details for the installed groundwater monitoring wells are summarised in **Table 8-2**.

| Well ID | Well Depth (mBGL) | Well Stick up (m) | Screen Interval (mBGL) | Lithology Screened |
|---------|-------------------|-------------------|------------------------|--------------------|
| BH3M-a  | 6.1               | +1.0              | 3.1-6.1                | Sandstone          |
| BH4M-a  | 7.7               | +0.96             | 4.7-7.7                | Sandstone          |
| BH5M    | 6.5               | +0.6              | 2.5-6.5                | Sandstone          |
| BH7M    | 4.9               | +1.0              | 1.9-4.9                | Sandstone          |

Table 8-2 Monitoring Well Construction Details

mBGL- Metres Below Ground Level.

#### 8.2.2 Field Observations

A groundwater monitoring event (GME) was conducted on 29 July 2020 for all the monitoring wells installed. In addition, another round of sampling for BH4M-a was conducted on 18 August to confirm the heavy metal results. Field data was recorded before sampling, as presented in **Table 8-3**. Field data sheets are attached in **Appendix G**. Samples were then evaluated on the basis of odour and visual signs of contamination, with the following observations noted:

- Groundwater in monitoring well BH3M-a and BH5M was noted to be light brown, with low to medium turbidity, while in BH4M-a, groundwater was noted to be brown, with medium to high turbidity;
- No sufficient water was in monitoring well BH7M for sampling and field observation;
- No olfactory or visual evidence of contamination was noted in the monitoring wells;
- No sheens were noted within the groundwater of any monitoring well sampled; and
- Additional round of sampling of BH4M-a recorded the groundwater in this well was noted to be light brown, with low to medium turbidity on 18 August 2020.

| Well ID | SWL<br>(mBTOC) | SWL<br>(mBGL) | SWL<br>(mAHD) | DO<br>(mg/L) | Field<br>pH | Field EC<br>(μS/cm) | Temp<br>(°C) | Redox<br>(mV) |
|---------|----------------|---------------|---------------|--------------|-------------|---------------------|--------------|---------------|
| BH3M-a  | 3.58           | 2.58          | 88.92         | 0.59         | 5.15        | 2809                | 21.08        | 106.2         |
| BH4M-a  | 5.44           | 4.48          | 93.02         | 0.91         | 5.24        | 3088                | 20.95        | 97.03         |
| BH5M    | 4.64           | 4.04          | 89.96         | 0.80         | 5.29        | 2782                | 20.90        | 92.4          |
| BH7M    | -              | -             | -             | -            | -           | -                   | -            | -             |

 Table 8-3
 Groundwater Field Data

SWL – Standing Water Levels as measured from TOC (top of well casing) prior to groundwater sampling. BGL – Below Ground Level.

AHD – Australian Height Datum (approximate).



### 8.3 Laboratory Analytical Results

#### 8.3.1 Soil Analytical Results

A summary of the laboratory results showing number of tested samples, minimum/maximum analyte concentrations for primary samples and samples found to exceed the SILs, is presented in **Table 8-4**. More detailed tabulations of results showing the tested concentrations for individual samples alongside the adopted soil criteria are presented in **Table T1** in **Appendix B**.

Completed documentation used to track soil sample movements and laboratory receipt (i.e. COC and SRA forms) are copied in **Appendix H** and all laboratory analytical reports for tested soil samples are presented in **Appendix I**.

| No. of Primary<br>Samples | Analyte                                             | Min. Conc.<br>(mg/kg) | Max. Conc.<br>(mg/kg) | Sample(s) Exceeding SILs |
|---------------------------|-----------------------------------------------------|-----------------------|-----------------------|--------------------------|
| Priority Metals           |                                                     |                       |                       |                          |
| 43                        | Arsenic                                             | <1                    | 14                    | None                     |
| 43                        | Cadmium                                             | <0.3                  | <0.3                  | None                     |
| 43                        | Chromium (Total)                                    | 2.3                   | 42                    | None                     |
| 43                        | Copper                                              | <0.5                  | 130                   | None                     |
| 43                        | Lead                                                | 2                     | 23                    | None                     |
| 43                        | Nickel                                              | <0.5                  | 34                    | None                     |
| 43                        | Zinc                                                | <2                    | 87                    | None                     |
| 43                        | Mercury                                             | <0.05                 | <0.05                 | None                     |
| PAHs                      |                                                     |                       |                       |                          |
| 42                        | Benzo(α)pyrene                                      | <0.1                  | 0.5                   | None                     |
| 42                        | Carcinogenic PAHs                                   | <0.3                  | 0.8                   | None                     |
| 42                        | Naphthalene                                         | <0.1                  | <0.1                  | None                     |
| 42                        | Total PAHs                                          | <0.8                  | 8                     | None                     |
| TRHs (including           | BTEX)                                               |                       |                       |                          |
| 42                        | TRH C <sub>6</sub> -C <sub>10</sub> minus BTEX (F1) | <25                   | <25                   | None                     |
| 42                        | TRH >C10-C16 (F2)<br>minus Naphthalene              | <25                   | <25                   | None                     |
| 42                        | TRH >C <sub>16</sub> -C <sub>34</sub> (F3)          | <90                   | 280                   | None                     |
| 42                        | TRH >C <sub>34</sub> -C <sub>40</sub> (F4)          | <120                  | 370                   | None                     |
| 42                        | Benzene                                             | <0.1                  | <0.1                  | None                     |
| 42                        | Toluene                                             | <0.1                  | <0.1                  | None                     |
| 42                        | Ethylbenzene                                        | <0.1                  | <0.1                  | None                     |
| 42                        | Total Xylenes                                       | <0.3                  | <0.3                  | None                     |
| OCPs                      |                                                     |                       |                       |                          |

Table 8-4 Summary of Soil Analytical Results



| No. of Primary<br>Samples | Analyte      | Min. Conc.<br>(mg/kg) | Max. Conc.<br>(mg/kg) | Sample(s) Exceeding SILs |
|---------------------------|--------------|-----------------------|-----------------------|--------------------------|
| 38                        | OCPs         | <1                    | <1                    | None                     |
| OPPs                      |              |                       |                       |                          |
| 38                        | OPPs         | <1.7                  | <1.7                  | None                     |
| PCBs                      |              |                       |                       |                          |
| 38                        | PCBs         | <1                    | <1                    | None                     |
| Asbestos (prese           | nce/absence) |                       |                       |                          |
| 39                        | Asbestos     | Not Detected          | Not Detected          | None                     |
|                           |              |                       |                       |                          |

#### 8.3.2 Soil salinity

Laboratory results indicated that natural soils on site were non-saline. Soils were found to be slightly acidic (pH ranged from 4.6 to 6.1), with the exception of soil sample at BH3M reported pH at 9.4.

#### 8.3.3 Groundwater Analytical Results

Laboratory analytical results for groundwater samples are summarised in **Table 8-5**, which also include the test sample quantities, minimum/maximum analyte concentrations for primary samples and samples found to exceed the GILs. More detailed tabulations of results showing the tested concentrations for individual samples alongside the adopted groundwater criteria are presented in **Table T2** in **Appendix B**.

Completed documentation used to track groundwater sample movements and laboratory receipt (COC and SRA forms) are copied in **Appendix H**. Copies of the laboratory analytical reports are attached in **Appendix I**.



| Table 8-5                    | Summary of Ground                                      | water Analytic                    | al Results                        |                                                                                                         |
|------------------------------|--------------------------------------------------------|-----------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| No. of<br>Primary<br>Samples | Analyte                                                | Min. Conc.<br>(µg/L) <sup>1</sup> | Max. Conc.<br>(µg/L) <sup>1</sup> | Sample(s) Exceeding GILs                                                                                |
| Priority Me                  | etals                                                  |                                   |                                   |                                                                                                         |
| 3                            | Arsenic                                                | <1                                | 2                                 | None                                                                                                    |
| 3                            | Cadmium                                                | <0.1                              | 0.2                               | None                                                                                                    |
| 3                            | Chromium (Total)                                       | 1                                 | 3                                 | BH5M (3μg/L) exceeded fresh<br>water criteria for Cr VI (1 μg/L)                                        |
| 3                            | Copper                                                 | 22                                | 23                                | BH3M-a (22 μg/L), BH4M-a (22<br>μg/L) and BH5M (23 μg/L)<br>exceeded fresh water criteria (1.4<br>μg/L) |
| 3                            | Lead                                                   | <1                                | 30                                | BH4M-a (30 μg/L) and BH5M<br>(11μg/L) exceeded fresh water<br>criteria (3.4μg/L)                        |
| 3                            | Nickel                                                 | 26                                | 38                                | BH3M-a (26µg/L), BH4M-a (38 µg/L)<br>and BH5M (27µg/L) exceeded fresh<br>water criteria (11µg/L)        |
| 3                            | Zinc                                                   | 74                                | 240                               | BH3M-a (74 µg/L), BH4M-a (240<br>µg/L) and BH5M (180 µg/L)<br>exceeded fresh water criteria<br>(8µg/L)  |
| 3                            | Mercury                                                | <0.1                              | <0.1                              | None                                                                                                    |
| PAHs                         |                                                        |                                   |                                   |                                                                                                         |
| 3                            | Benzo(α)pyrene                                         | <0.1                              | <0.1                              | None                                                                                                    |
| 3                            | Naphthalene                                            | <0.1                              | <0.1                              | None                                                                                                    |
| 3                            | Total PAHs                                             | <1                                | <1                                | None                                                                                                    |
| TRHs (incl                   | uding BTEX)                                            |                                   |                                   |                                                                                                         |
| 3                            | TRH C <sub>6</sub> -C <sub>10</sub> minus<br>BTEX (F1) | <50                               | 52                                | None                                                                                                    |
| 3                            | TRH >C10-C16 (F2)<br>minus Naphthalene                 | <60                               | 76                                | None                                                                                                    |
| 3                            | TRH >C <sub>16</sub> -C <sub>34</sub> (F3)             | <500                              | <500                              | None                                                                                                    |
| 3                            | TRH >C <sub>34</sub> -C <sub>40</sub> (F4)             | <500                              | <500                              | None                                                                                                    |
| 3                            | Benzene                                                | <0.5                              | <0.5                              | None                                                                                                    |
| 3                            | Toluene                                                | <0.5                              | <0.5                              | None                                                                                                    |
| 3                            | Ethylbenzene                                           | <0.5                              | <0.5                              | None                                                                                                    |
| 3                            | o-xylene                                               | <0.5                              | <0.5                              | None                                                                                                    |
| 3                            | m/p-xylene                                             | <1                                | <1                                | None                                                                                                    |
| VOCs                         |                                                        |                                   |                                   |                                                                                                         |

#### Table 8-5 Summary of Groundwater Analytical Results



| No. of<br>Primary<br>Samples | Analyte                       | Min. Conc.<br>(µg/L) <sup>1</sup> | Max. Conc.<br>(μg/L) <sup>1</sup> | Sample(s) Exceeding GILs |
|------------------------------|-------------------------------|-----------------------------------|-----------------------------------|--------------------------|
| 3                            | Chloroform (THM)              | 1.7                               | 39                                | None                     |
| 3                            | Bromodichloromethane<br>(THM) | <0.5                              | 6.6                               | None                     |
| 3                            | Dibromochloromethane<br>(THM) | <0.5                              | 1.6                               | None                     |
| 3                            | Total VOC                     | <10                               | 48                                | None                     |

Note 1 Reported minimum and maximum concentrations shows results after resampling of BH4M-a.





## 9. Site Characterisation

#### 9.1 Subsurface Conditions

The general site lithology encountered during this investigation can be described as a layer of anthropogenic filling overlying residual clay and sandstone bedrock. The depth of fill soils at the site ranged from 0.6 mBGL in the south-eastern corner at BH1 to 4.0 mBGL in the north-eastern corner at BH4M. The fill soils at the central portion of the site (TP15 and TP18) and south-western corner of the site (BH3M, TP12 and TP13) were also noted to be of moderate depths (ranged between 2.1m and 3.0m BGL).

#### 9.2 Soil Impacts

No visual signs of contamination (e.g. oil staining, petrochemical filming, asbestos fragments) were noted during the soil investigation.

Contaminant concentrations in soils, sampled across the site, were all found to be below the most conservative human health (HIL A / HSL A&B) and ecological criteria.

#### 9.3 Salinity

Laboratory results indicated that natural soils on site were non-saline. Soils were found to be slightly acidic (pH ranged from 4.6 to 6.1), with the exception of soil sample at BH3M reported pH at 9.4.

#### 9.4 Groundwater Impacts

With reference to **Table 8-5** and **Table T2**, concentrations of PAHs, BTEX, TRHs and VOCs were reported below the adopted criteria.

For heavy metals, chromium, copper, lead, nickel and zinc were detected in groundwater at levels above the adopted GILs. However, as the elevation of metal concentrations are common in urban groundwater environments, the detected concentrations are considered to be indicative of background conditions, rather than site specific impacts. In addition, no on-site sources in relation to heavy metals were identified in site soils.

Tested TRH concentrations were below the PQL, with the exception of TRH-F1 fraction was detected in BH4M-a ( $52\mu g/L$ ) and TRH-F2 fraction was detected in BH5M ( $76\mu g/L$ ), which slightly exceeded the laboratory PQL ( $50\mu g/L$  for TRH-F1 and  $60\mu g/L$  for TRH-F2).

For the proposed mixed use, residential and commercial land use, the TRH-F1 and TRH-F2 results can be compared to the HSL-A&B (low to high density residential) and HSL-D (commercial/industrial) criteria. In such a comparison, the TRH-F1 HSL-A&B and HSL-D criteria are 1,000µg/L and 6,000µg/L, and the TRH-F2 HSL-A&B and HSL-D criteria are 1,000µg/L and Not-Limiting, so the results are below these criteria and thus the TRH in groundwater is not considered to pose human health risk to the current land use.

Total VOC concentrations were detected in BH3M-a  $(13\mu g/L)$  and BH4M-a  $(48\mu g/L)$  for Trihalomethanes (THMs). As the detected THMs concentrations were low, it is not considered to pose human health risk at the site.



### 9.5 Review of Conceptual Site Model

Preliminary CSM discussed in **Sections 5.7** generally identified a low to moderate contamination risk on the site, relating to the widespread fill across the site, hazardous materials from demolition of historic structures, historical pesticide use, former onsite storage of material/equipment, former AST and water treatment basins in the north-eastern site corner and central portion of the site. On the basis of investigation findings, the preliminary CSM was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential receptors. Previously known data gaps, as discussed in **Section 5.8** have largely been addressed, with the exception of the following:

- Groundwater quality in monitoring well BH7M is not known due to insufficient water for sampling;
- No well survey having been completed at the site. Based on the limited survey data and depth to water the groundwater appears to be flowing to the south west toward Cattai Creek in a similar direction to the overall topography.

#### 9.6 Preliminary Waste Classification

Preliminary waste classification was conducted during this investigation. This information is for the purpose of development planning and does not constitute a formal waste classification certificate, as required by the *NSW Waste Regulations 2014*. A table with tabulated data can be found in **Appendix B**.

It is recommended that the fill soils on the site classified as General Soil Waste (GSW). The analytical results were below CT1 criteria and depending on the receiving facility might be classified as GSW-recyclable. The results also met the Excavated Natural Material (ENM) criteria but testing is needed for pH, EC and foreign material. The underlying natural soils on the site can be classified as Virgin Excavated Natural Material (VENM).



# 10. Conclusions

The property located at Doran Drive Precinct, 2 Mandala Parade, Castle Hill NSW was the subject of a Detailed Site Investigation, which was conducted in order to assess the nature and degree of on-site contamination associated with current and former uses of the property. Based on the findings of this DSI it was concluded that:

- The site was found to be a rectangular vacant block, secured by construction hoarding and security fencing. It was elevated above the surrounding land, which displayed a moderate downslope towards the southwest. The ground surface was covered by exposed fill materials, with limited vegetation present onsite. No visual evidence of gross contamination, UPSS or UST was observed on the site during the site inspection.
- A review of historical information indicated the site was used as rural residential, agricultural, vacant pastoral and public open space (playing fields) until the late 1980s. Since 2013, significant ground disturbance works (bulk earthworks and material storage) have been completed as a result of the SMNW Project activities. The site was used for a holding and processing yard during that period, which included excavated water treatment basins, material/equipment storage and site sheds. During 2019, the current site configuration was established and cleared of all previous structures. The site surface was significantly filled and raised above the surrounding land.
- The site and surrounding lands were not listed on any of the EPA records reviewed.
- Soil sampling and analysis were conducted at 19 locations across the site.
  - The sub-surface layers observed comprised of fill materials (up to 4.0m depth) overlying natural clay and sandstone bedrock;
  - Laboratory results for all the soil samples collected reported concentrations below the most conservative human health and ecological based SILs;
  - Laboratory results indicated that natural soils on site were non-saline. Soils were found to be slightly acidic (pH ranged from 4.6 to 6.1), with the exception of soil sample at BH3M reported pH at 9.4
- Four groundwater monitoring wells were installed on the site.
  - Standing Water Levels (SWL) were observed between 2.58 and 4.48 mBGL;
  - Groundwater was likely to flow south-westerly towards Cattai Creek;
  - Concentrations of PAHs, BTEX, TRHs and VOCs were reported below the adopted criteria;
  - Concentrations of heavy metals were reported below the adopted freshwater criteria, with the exception of chromium, copper, lead, nickel and zinc. However, the detected concentrations are considered to be indicative of background conditions, rather than site specific impacts.
  - Therefore the identified groundwater concentrations are not considered to present a cause for human health and environmental concern.
- Based on the analytical results, the following preliminary classifications were provided (with reference to the EPA (2014) Waste Classification Guidelines):



- The fill materials on the site were classified as *General Solid Waste (Non-Putrescible)*; and
- The underlying natural soils on the site were classified as *Virgin Excavated Natural Material* (VENM).

Based on the findings of this investigation, EI conclude that the site is suitable for the proposed mixed commercial and residential development provided the recommendations detailed in **Section 11** are implemented.



### 11. Recommendations

In view of the above findings and in accordance with the NEPM 2013 guidelines, it is considered that the site is suitable for the proposed mixed commercial and residential development on completion of the following recommendations:

- Any fill or natural soil materials that are required to be removed from site as surplus materials (including virgin excavated natural materials or VENM) as part of any excavation and foundation works are to be classified for off-site disposal in accordance the EPA (2014) *Waste Classification Guidelines* and *Protection of the Environmental Operations (Waste) Regulations* (2014);
- Any material imported to the site should be validated as suitable for the intended use in accordance with EPA guidelines.



# 12. Statement of Limitations

The findings presented in this report are the result of discrete and specific sampling methodologies used in accordance with best industry practices and standards. Due to the site-specific nature of soil sampling from point locations, it is considered likely that all variations in subsurface conditions across a site cannot be fully defined, no matter how comprehensive the field investigation program.

While normal assessments of data reliability have been made, EI assumes no responsibility or liability for errors in any data obtained from previous assessments conducted on site, regulatory agencies (e.g. Council, EPA), statements from sources outside of EI, or developments resulting from situations outside the scope of works of this project.

Despite all reasonable care and diligence, the ground conditions encountered and concentrations of contaminants measured may not be representative of conditions between the locations sampled and investigated. In addition, site characteristics may change at any time in response to variations in natural conditions, chemical reactions and other events, e.g. groundwater movement and or spillages of contaminating substances. These changes may occur subsequent to El's investigations and assessment.

EI's assessment is necessarily based upon the result of the site investigation and the restricted program of surface and subsurface sampling, screening and chemical testing which was set out in the proposal. Neither EI, nor any other reputable consultant, can provide unqualified warranties nor does EI assume any liability for site conditions not observed or accessible during the time of the investigations.

This report was prepared for the above named client and no responsibility is accepted for use of any part of this report in any other context or for any other purpose or by other third parties. This report does not purport to provide legal advice.

This report and associated documents remain the property of EI subject to payment of all fees due for this assessment. The report shall not be reproduced except in full and with prior written permission by EI.



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# 14. Abbreviations

| ACM<br>AHD<br>AS<br>ASS<br>B(a)P<br>BGL<br>BH<br>BTEX<br>COC<br>CSM<br>DA<br>DP<br>DSI<br>EIL<br>ENM | Asbestos-Containing Materials<br>Australian Height Datum<br>Australian Standard<br>Acid Sulfate Soils<br>Benzo(a)Pyrene (a PAH compound), - B(a)P TEQ Toxicity Equivalent Quotient<br>Below Ground Level<br>Borehole<br>Benzene, Toluene, Ethylbenzene, Xylene<br>Chain of Custody<br>Conceptual Site Model<br>Development Application<br>Deposited Plan<br>Detailed Site Investigation<br>Ecological Investigation Level<br>Excavated Natural Material |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPA                                                                                                  | Environment Protection Authority NSW                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ESL                                                                                                  | Ecological Screening Level                                                                                                                                                                                                                                                                                                                                                                                                                              |
| F1                                                                                                   | TRH $C_6 - C_{10}$ less the sum of BTEX concentrations (Ref. NEPM 2013, Schedule B1)                                                                                                                                                                                                                                                                                                                                                                    |
| F2                                                                                                   | TRH > $C_{10} - C_{16}$ less the concentration of naphthalene (Ref. NEPM 2013, Schedule B1)                                                                                                                                                                                                                                                                                                                                                             |
| F3                                                                                                   | TRH >C16-C34                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| F4                                                                                                   | TRH >C34-C40                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| FFL                                                                                                  | Finished Floor Level                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| GIL                                                                                                  | Groundwater Investigation Level                                                                                                                                                                                                                                                                                                                                                                                                                         |
| GME                                                                                                  | Groundwater Monitoring Event                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GSW<br>HIL                                                                                           | General Solid Waste<br>Health-based Investigation Level                                                                                                                                                                                                                                                                                                                                                                                                 |
| HSL                                                                                                  | Health-based Screening Level                                                                                                                                                                                                                                                                                                                                                                                                                            |
| km                                                                                                   | Kilometres                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LEP                                                                                                  | Local Environmental Plan                                                                                                                                                                                                                                                                                                                                                                                                                                |
| LGA                                                                                                  | Local Government Area                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| m                                                                                                    | Metres                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NATA                                                                                                 | National Association of Testing Authorities, Australia                                                                                                                                                                                                                                                                                                                                                                                                  |
| NEPC                                                                                                 | National Environmental Protection Council                                                                                                                                                                                                                                                                                                                                                                                                               |
| NEPM                                                                                                 | National Environmental Protection Measure                                                                                                                                                                                                                                                                                                                                                                                                               |
| NSW                                                                                                  | New South Wales                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OCP/OPP                                                                                              | Organochlorine and Organophosphorus Pesticides                                                                                                                                                                                                                                                                                                                                                                                                          |
| PAHs                                                                                                 | Polycyclic Aromatic Hydrocarbons                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PFAS                                                                                                 | Per- and Poly-Fluoroalkyl Substances                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PID                                                                                                  | Photo-ionisation Detector                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ppm                                                                                                  | Parts Per Million                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PQL                                                                                                  | Practical Quantitation Limit (limit of detection for respective laboratory instruments)                                                                                                                                                                                                                                                                                                                                                                 |
| QA/QC                                                                                                | Quality Assurance / Quality Control                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SIL<br>SMNW                                                                                          | Soil Investigation Level<br>Metro North West                                                                                                                                                                                                                                                                                                                                                                                                            |
| SRA                                                                                                  | Sample receipt advice (document confirming laboratory receipt of samples)                                                                                                                                                                                                                                                                                                                                                                               |
| SWL                                                                                                  | Standing Water Level                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TP                                                                                                   | Test Pit                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TPH                                                                                                  | Total Petroleum Hydrocarbons (superseded term equivalent to TRH)                                                                                                                                                                                                                                                                                                                                                                                        |
| TRH                                                                                                  | Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)                                                                                                                                                                                                                                                                                                                                                                             |
| UCL                                                                                                  | Upper Confidence Limit of the mean                                                                                                                                                                                                                                                                                                                                                                                                                      |
| UPSS                                                                                                 | Underground Petroleum Storage System                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -                                                                                                    | 5 5 7                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

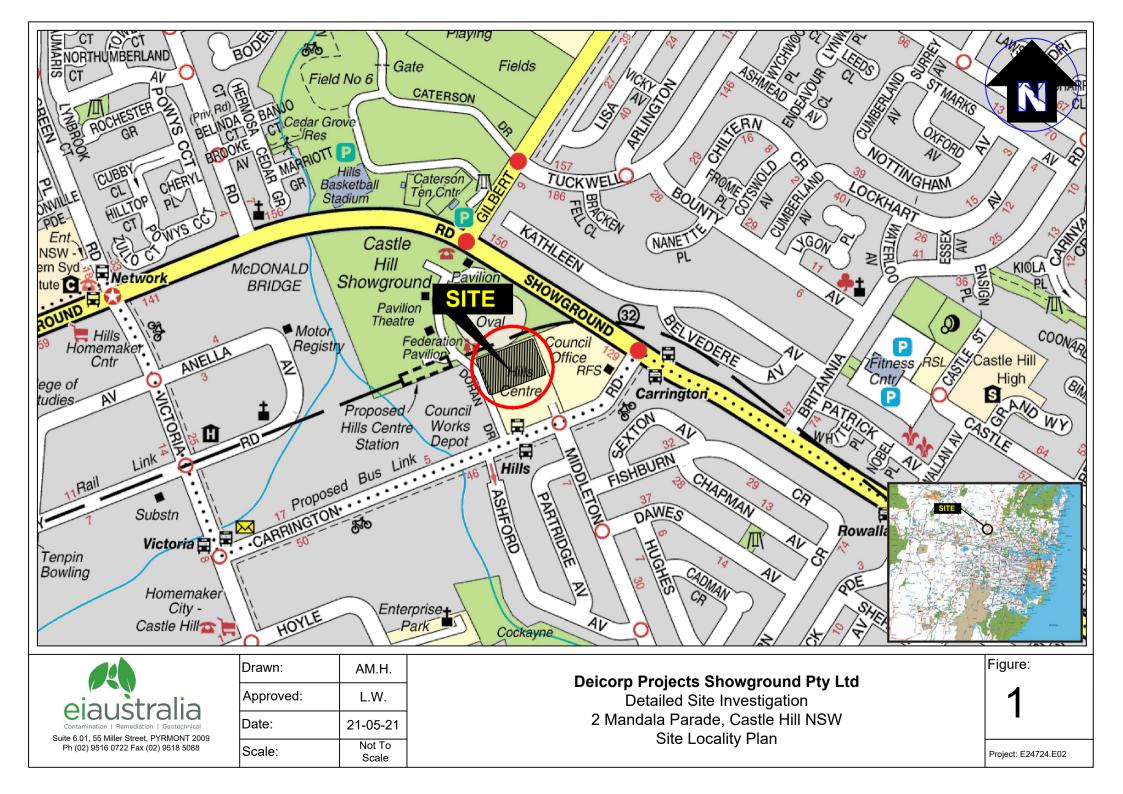


USEPA United States Environmental Protection Agency

- UST Underground Storage Tank
- VENM Virgin Excavated Natural Material
- VOC Volatile Organic Compounds



Appendix A - Figures





- Approximate Sydney Metro Tunnel
- Approximate Showground Station Footprint
- Approximate 1st & 2nd tunnel reserve extents 5m & 25m away from the tunnel boundaries -----
- Approximate test pit location
- Approximate borehole / monitoring well location
- Approximate borehole location



| Drawn:    | AM.H.    |  |
|-----------|----------|--|
| Approved: | L.W.     |  |
| Date:     | 21-05-21 |  |

**Deicorp Projects Showground Pty Ltd** Detailed Site Investigation 2 Mandala Parade, Castle Hill NSW Sampling Location Plan

Project: E24724.E02

Appendix B - Tables



#### Table T1 – Summary of Soil Test Results

|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       | Priorit     | y Metals                                                           |                                                                                                 |                                                                               |           |                                     | F                                             | PAHs                               |                      |                                                      | BT                                                      | EX                                            |                                          |             |             | TR             | Hs           |                   |                                            | Pesti                                                   | icides            |                                           | Asbestos                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|---------------------------------------|-------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------|-------------------------------------|-----------------------------------------------|------------------------------------|----------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------|------------------------------------------|-------------|-------------|----------------|--------------|-------------------|--------------------------------------------|---------------------------------------------------------|-------------------|-------------------------------------------|--------------------------------------------------------------|
| Sample ID                                                                                                                                                          | Sampling Date                                                                                                                                                                                                                                                                | As                                  | Cd                       | Cr <sup>#</sup>                       | Cu          | Pb                                                                 | Hg                                                                                              | Ni                                                                            | Zn        | Carcinogenic PAHs<br>(as B(α)P TEQ) | Benzo(α)pyrene                                | Total PAHs                         | Naphthalene          | Benzene                                              | Toluene                                                 | Ethylbenzene                                  | Total Xylenes                            | FI          | F2          | F3             | F4           | C6-C9             | C10-C36                                    | OCPs                                                    | Opps              | PCBs                                      | Presence / absence                                           |
| Fill<br>BH1_0.1-0.2                                                                                                                                                | 8/07/2020                                                                                                                                                                                                                                                                    | 5                                   | < 0.3                    | 8.8                                   | 9.8         | 12                                                                 | < 0.05                                                                                          | 5.4                                                                           | 16        | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| BH2_0.1-0.2                                                                                                                                                        | 9/07/2020                                                                                                                                                                                                                                                                    | 4                                   | <0.3                     | 14                                    | 21          | 11                                                                 | < 0.05                                                                                          | 17                                                                            | 27        | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| BH2_1.2-1.3<br>BH3M_0.1-0.2                                                                                                                                        |                                                                                                                                                                                                                                                                              | 7                                   | < 0.3                    | 25<br>24                              | 2.3<br>9.2  | 12<br>14                                                           | <0.05<br><0.05                                                                                  | 2.9<br>6.9                                                                    | 6.9<br>21 | <0.3<br>N.A.                        | <0.1<br>N.A.                                  | <0.8<br>N.A.                       | <0.1<br>N.A.         | <0.1<br>N.A.                                         | <0.1<br>N.A.                                            | <0.1<br>N.A.                                  | <0.3<br>N.A.                             | <25<br>N.A. | <25<br>N.A. | <90<br>N.A.    | <120<br>N.A. | <20<br>N.A.       | <110<br>N.A.                               | N.A.<br>N.A.                                            | N.A.              | N.A.                                      | N.A.<br>No                                                   |
| BH3M_0.7-0.8                                                                                                                                                       | 13/07/2020                                                                                                                                                                                                                                                                   | 3                                   | < 0.3                    | 16                                    | 16          | 16                                                                 | < 0.05                                                                                          | 10                                                                            | 26        | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| BH3M_1.7-1.8<br>BH4M_0.3-0.5                                                                                                                                       |                                                                                                                                                                                                                                                                              | 4                                   | <0.3<br><0.3             | 13<br>15                              | 12<br>19    | 17<br>16                                                           | <0.05<br><0.05                                                                                  | 7.8<br>8.5                                                                    | 32<br>35  | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1<br><0.1         | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1 <1                                                   | <1.7<br><1.7      | <1<br><1                                  | No                                                           |
| BH4M_1.4-1.5                                                                                                                                                       | 14/07/2020                                                                                                                                                                                                                                                                   | 2                                   | < 0.3                    | 6.3                                   | 2.8         | 6                                                                  | < 0.05                                                                                          | 0.9                                                                           | 5.3       | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | < 0.3                                    | <25         | <25         | <90            | <120         | <20               | <110                                       | N.A.                                                    | N.A.              | N.A.                                      | N.A.                                                         |
| BH4M_2.9-3.0<br>BH5M_0.1-0.2                                                                                                                                       | 16/07/2020                                                                                                                                                                                                                                                                   | 5                                   | <0.3<br><0.3             | 18<br>9.5                             | 5.3<br>14   | 10<br>11                                                           | <0.05<br><0.05                                                                                  | 3.6<br>7.2                                                                    | 9.5<br>22 | <0.3<br>0.8                         | <0.1<br>0.5                                   | <0.8                               | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1<br><1                                                | <1.7<br><1.7      | <1<br><1                                  | No                                                           |
| BH5M_1.5-1.6<br>BH6_0.1-0.2                                                                                                                                        | 20/07/2020                                                                                                                                                                                                                                                                   | 6<br>4                              | < 0.3                    | 11<br>12                              | 14<br>15    | 11<br>23                                                           | <0.05<br><0.05                                                                                  | 16<br>9.9                                                                     | 24<br>45  | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1                 | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | N.A.<br><1                                              | N.A.<br><1.7      | N.A.<br><1                                | N.A.<br>No                                                   |
| TP7_0.1-0.2                                                                                                                                                        | 20/07/2020                                                                                                                                                                                                                                                                   | 4                                   | < 0.3                    | 12                                    | 24          | 12                                                                 | < 0.05                                                                                          | 13                                                                            | 34        | <0.3                                | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | < 0.3                                    | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP8_0.1-0.2<br>TP9_0.1-0.2                                                                                                                                         | _                                                                                                                                                                                                                                                                            | 5                                   | < 0.3                    | 24<br>8.4                             | 26<br>16    | 12<br>11                                                           | <0.05<br><0.05                                                                                  | 18<br>5.7                                                                     | 27<br>22  | 0.3<br><0.3                         | 0.2<br><0.1                                   | 1.7<br><0.8                        | <0.1                 | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1                                          | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1 <1                                                   | <1.7<br><1.7      | <1<br><1                                  | No                                                           |
| TP10_0.1-0.2                                                                                                                                                       |                                                                                                                                                                                                                                                                              | 4                                   | < 0.3                    | 14                                    | 16          | 12                                                                 | < 0.05                                                                                          | 10                                                                            | 31        | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP11_0.1-0.2<br>TP11_0.8-0.9                                                                                                                                       | -                                                                                                                                                                                                                                                                            | 4                                   | < 0.3                    | 42<br>29                              | 12<br>130   | 12<br>4                                                            | <0.05<br><0.05                                                                                  | 10<br>34                                                                      | 39<br>39  | < 0.3                               | 0.1<br><0.1                                   | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1<br><0.1                                  | < 0.3                                    | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1 <1                                                   | <1.7              | <1 <1                                     | No                                                           |
| TP12_0.1-0.2                                                                                                                                                       |                                                                                                                                                                                                                                                                              | 4                                   | < 0.3                    | 11                                    | 22          | 15                                                                 | < 0.05                                                                                          | 20                                                                            | 42        | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP12_0.8-0.9<br>TP12_1.7-1.8                                                                                                                                       | -                                                                                                                                                                                                                                                                            | 3                                   | <0.3<br><0.3             | 12<br>12                              | 19<br>13    | 13<br>13                                                           | <0.05<br><0.05                                                                                  | 18<br>10                                                                      | 38<br>25  | <0.3<br><0.3                        | 0.1<br><0.1                                   | 1.2<br><0.8                        | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1                                                    | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1<br><1                                                | <1.7<br><1.7      | <1<br><1                                  | No<br>No                                                     |
| TP13_0.1-0.2                                                                                                                                                       | 8/07/2020                                                                                                                                                                                                                                                                    | 3                                   | < 0.3                    | 8.1                                   | 9.4         | 10                                                                 | < 0.05                                                                                          | 8.6                                                                           | 20        | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP13_1.2-1.3<br>TP13_2.0-2.1                                                                                                                                       |                                                                                                                                                                                                                                                                              | 4                                   | <0.3<br><0.3             | 10<br>14                              | 14<br>12    | 13<br>17                                                           | <0.05<br><0.05                                                                                  | 8.3<br>8.2                                                                    | 28<br>28  | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1<br><1                                                | <1.7<br><1.7      | <1<br><1                                  | No<br>No                                                     |
| TP14_0.1-0.2<br>TP15_0.1-0.2                                                                                                                                       | -                                                                                                                                                                                                                                                                            | 4                                   | <0.3<br><0.3             | 13<br>11                              | 15<br>15    | 14<br>16                                                           | <0.05<br><0.05                                                                                  | 13<br>9.3                                                                     | 35<br>87  | <0.3<br><0.3                        | <b>0.1</b> <0.1                               | <b>0.8</b><br><0.8                 | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1<br><1                                                | <1.7              | <1<br><1                                  | No<br>No                                                     |
| TP15_1.7-1.8                                                                                                                                                       |                                                                                                                                                                                                                                                                              | 4                                   | < 0.3                    | 16                                    | 22          | 15                                                                 | < 0.05                                                                                          | 6.8                                                                           | 36        | <0.3                                | 0.1                                           | 1.7                                | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | < 0.3                                    | <25         | <25         | 280            | 370          | <20               | 430                                        | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP16_0.1-0.2<br>TP17_0.1-0.2                                                                                                                                       | _                                                                                                                                                                                                                                                                            | 3                                   | <0.3<br><0.3             | 15<br>10                              | 24<br>12    | 9<br>12                                                            | <0.05<br><0.05                                                                                  | 18<br>9.8                                                                     | 50<br>32  | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1                 | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1<br><1                                                | <1.7<br><1.7      | <1                                        | No<br>No                                                     |
| TP18_0.1-0.2                                                                                                                                                       |                                                                                                                                                                                                                                                                              | 3                                   | <0.3                     | 9.1                                   | 12          | 11                                                                 | < 0.05                                                                                          | 9                                                                             | 30        | <0.3                                | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP18_1.8-1.9<br>TP19_0.1-0.2                                                                                                                                       | -                                                                                                                                                                                                                                                                            | 6                                   | <0.3<br><0.3             | 11<br>32                              | 16<br>23    | 14<br>11                                                           | <0.05<br><0.05                                                                                  | 9.2<br>15                                                                     | 44<br>43  | < 0.3                               | <0.1<br><0.1                                  | <0.8                               | <0.1<br><0.1         | <0.1                                                 | <0.1                                                    | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1 <1                                                   | <1.7              | <1 <1                                     | No                                                           |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    |                                                                                                 |                                                                               |           |                                     |                                               | Statistical                        | Analysis             |                                                      |                                                         |                                               |                                          |             |             |                |              |                   |                                            |                                                         |                   |                                           |                                                              |
| Maximum co<br>Natural                                                                                                                                              | oncentration                                                                                                                                                                                                                                                                 | 7                                   | <0.3                     | 42                                    | 130         | 23                                                                 | < 0.05                                                                                          | 34                                                                            | 87        | 0.8                                 | 0.5                                           | 8                                  | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | 280            | 370          | <20               | 430                                        | <1                                                      | <1.7              | <1                                        | No                                                           |
| BH1_0.7-0.8                                                                                                                                                        | 8/07/2020                                                                                                                                                                                                                                                                    | 6                                   | < 0.3                    | 7.9                                   | 8.9         | 14                                                                 | < 0.05                                                                                          | 0.8                                                                           | 7.8       | < 0.3                               | <0.1                                          | <0.8                               | <0.1                 | < 0.1                                                | < 0.1                                                   | < 0.1                                         | < 0.3                                    | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| BH2_1.6-1.7<br>BH3M_2.8-2.9                                                                                                                                        | 9/07/2020<br>13/07/2020                                                                                                                                                                                                                                                      | 14<br>2                             | <0.3<br><0.3             | 9.8<br>13                             | 2.9<br>14   | 21<br>5                                                            | <0.05<br><0.05                                                                                  | <0.5<br>3.5                                                                   | 2.4<br>17 | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1<br><0.1                                            | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1<br><1                                                | <1.7<br><1.7      | <1<br><1                                  | No<br>No                                                     |
| BH4M_4.9-5.0<br>BH5M_1.9-2.0                                                                                                                                       | 14/07/2020<br>16/07/2020                                                                                                                                                                                                                                                     | 2                                   | <0.3<br><0.3             | 4.5<br>15                             | 2.7<br>3.8  | 7                                                                  | <0.05<br><0.05                                                                                  | 4 2.3                                                                         | 25<br>6.8 | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1                                                    | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | N.A.<br><1                                              | N.A.<br><1.7      | N.A.                                      | N.A.<br>No                                                   |
| BH6_1.4-1.5                                                                                                                                                        | 20/07/2020                                                                                                                                                                                                                                                                   | 4                                   | <0.3                     | 2.5                                   | 0.6         | 2                                                                  | < 0.05                                                                                          | < 0.5                                                                         | <2        | <0.3                                | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | < 0.3                                    | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP7_1.3-1.4<br>TP8_0.9-1.0                                                                                                                                         | -                                                                                                                                                                                                                                                                            | 14<br>5                             | <0.3<br><0.3             | 20<br>4.6                             | 9.6<br>6.9  | 17<br>18                                                           | <0.05<br><0.05                                                                                  | <0.5<br><0.5                                                                  | 7.1       | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1                                                    | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1 <1                                                   | <1.7<br><1.7      | <1 <1                                     | No                                                           |
| TP9_1.2-1.3                                                                                                                                                        | 8/07/2020                                                                                                                                                                                                                                                                    | <1                                  | < 0.3                    | 2.3                                   | 2.1         | 15                                                                 | < 0.05                                                                                          | <0.5                                                                          | <2        | <0.3                                | <0.1                                          | <0.8                               | <0.1                 | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| TP14_1.5-1.6<br>TP19_1.4-1.5                                                                                                                                       | -                                                                                                                                                                                                                                                                            | 4                                   | <0.3<br><0.3             | 6.1<br>16                             | <0.5<br>1.9 | 5<br>13                                                            | <0.05<br><0.05                                                                                  | <0.5<br>0.7                                                                   | <2<br>2.9 | <0.3<br><0.3                        | <0.1<br><0.1                                  | <0.8<br><0.8                       | <0.1<br><0.1         | <0.1<br><0.1                                         | <0.1                                                    | <0.1<br><0.1                                  | <0.3<br><0.3                             | <25<br><25  | <25<br><25  | <90<br><90     | <120<br><120 | <20<br><20        | <110<br><110                               | <1 <1                                                   | <1.7              | <1                                        | No                                                           |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    |                                                                                                 |                                                                               |           |                                     |                                               | Statistical                        | Analysis             |                                                      |                                                         |                                               |                                          |             |             |                |              |                   |                                            |                                                         |                   |                                           |                                                              |
| Maximum co                                                                                                                                                         | oncentration                                                                                                                                                                                                                                                                 | 14                                  | <0.3                     | 20                                    | 14          | 21                                                                 | < 0.05                                                                                          | 4                                                                             | 25        | <0.3                                | <0.1                                          | <0.8<br>NEPM (201                  | <0.1<br>13) Criteria | <0.1                                                 | <0.1                                                    | <0.1                                          | <0.3                                     | <25         | <25         | <90            | <120         | <20               | <110                                       | <1                                                      | <1.7              | <1                                        | No                                                           |
| HIL A - Residential with g                                                                                                                                         | garden / accessible soil                                                                                                                                                                                                                                                     | 100                                 | 20                       | 100<br>Cr(VI)                         | 6,000       | 300                                                                | 40                                                                                              | 400                                                                           | 7,400     | 3                                   |                                               | 300                                |                      |                                                      |                                                         |                                               |                                          |             |             |                |              |                   |                                            | 240                                                     |                   | 1                                         |                                                              |
| HIL B - Residential with                                                                                                                                           | h minimal soil access                                                                                                                                                                                                                                                        | 500                                 | 150                      | 500<br>Cr(VI)                         | 30,000      | 1,200                                                              | 120                                                                                             | 1,200                                                                         | 60,000    | 4                                   |                                               | 400                                |                      |                                                      |                                                         |                                               |                                          |             |             |                |              |                   |                                            | 600                                                     |                   | 1                                         |                                                              |
| HIL C - Rec                                                                                                                                                        | creational                                                                                                                                                                                                                                                                   | 300                                 | 90                       | 300<br>Cr(VI)                         | 17,000      | 600                                                                | 80                                                                                              | 1,200                                                                         | 30,000    | 3                                   |                                               | 300                                |                      |                                                      |                                                         |                                               |                                          |             |             |                |              |                   |                                            | 400                                                     |                   | 1                                         |                                                              |
| HIL D - Commerce                                                                                                                                                   | rcial / industrial                                                                                                                                                                                                                                                           | 3,000                               | 900                      | 3,600<br>Cr(VI)                       | 240,000     | 1,500                                                              | 730                                                                                             | 6,000                                                                         | 400,000   | 40                                  |                                               | 4,000                              |                      |                                                      |                                                         |                                               |                                          |             |             |                |              |                   |                                            | 3,600                                                   |                   | 7                                         |                                                              |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    | depths (0 m t                                                                                   | ,                                                                             |           |                                     |                                               |                                    | 5                    | 0.7                                                  | 480                                                     | NL                                            | 110                                      | 50          | 280         |                |              |                   |                                            |                                                         |                   |                                           |                                                              |
| HSL A & B - Low to hig<br>Soil texture class                                                                                                                       |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    | depths (1 m t<br>depths (2 m t                                                                  | ,                                                                             |           |                                     |                                               |                                    | NL<br>NL             | 1                                                    | NL<br>NL                                                | NL<br>NL                                      | 310<br>NL                                | 90<br>150   | NL<br>NL    |                |              |                   |                                            |                                                         |                   |                                           | 0.01 /<br>0.001                                              |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    | irce depths (4<br>depths (0 m t                                                                 |                                                                               |           |                                     |                                               |                                    | NL<br>NL             | 3<br>NL                                              | NL<br>NL                                                | NL<br>NL                                      | NL<br>NL                                 | 290<br>NL   | NL<br>NL    |                |              |                   |                                            |                                                         |                   |                                           |                                                              |
| HSL C - Recreation                                                                                                                                                 |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    | depths (0 m t<br>depths (1 m t                                                                  |                                                                               |           |                                     |                                               |                                    | NL                   | NL                                                   | NL                                                      | NL                                            | NL                                       | NL          | NL          |                |              |                   |                                            |                                                         |                   |                                           | 0.02 /                                                       |
| Soil texture class                                                                                                                                                 | sification – Clay                                                                                                                                                                                                                                                            |                                     |                          |                                       |             |                                                                    | depths (2 m t<br>irce depths (4                                                                 |                                                                               |           |                                     |                                               |                                    | NL<br>NL             | NL<br>NL                                             | NL<br>NL                                                | NL                                            | NL<br>NL                                 | NL<br>NL    | NL<br>NL    |                |              |                   |                                            |                                                         |                   |                                           | 0.001                                                        |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    | depths (0 m t                                                                                   | ,                                                                             |           |                                     |                                               |                                    | NL                   | 4                                                    | NL                                                      | NL                                            | NL                                       | 310         | NL          |                |              |                   |                                            |                                                         |                   |                                           |                                                              |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             |                                                                    |                                                                                                 | 0.0013                                                                        |           |                                     |                                               |                                    |                      | 6                                                    | NL                                                      | NL                                            | NL                                       | 480         | NL          |                |              |                   |                                            |                                                         |                   |                                           | 0.05 / 0.001                                                 |
| HSL D - Commer<br>Soil texture class                                                                                                                               |                                                                                                                                                                                                                                                                              |                                     |                          |                                       |             | Source                                                             | depths (1 m t<br>depths (2 m t                                                                  |                                                                               |           |                                     |                                               |                                    | NL<br>NL             | 9                                                    | NL                                                      | NL                                            | NL                                       | NL          | NL          |                |              |                   |                                            |                                                         |                   |                                           |                                                              |
| Soil texture class                                                                                                                                                 | sification - Clay                                                                                                                                                                                                                                                            |                                     |                          | 8                                     |             | Source<br>Source                                                   | depths (1 m t                                                                                   | o <4 m. BGL)                                                                  | 1         |                                     |                                               |                                    |                      | -                                                    |                                                         |                                               | NL<br>NL                                 | NL<br>NL    | NL<br>NL    |                |              |                   |                                            |                                                         |                   |                                           | 000000000000000000000000000000000000000                      |
| Soil texture class<br>EILs / ESLs - Urban Resid<br>Space                                                                                                           | sification – Clay<br>idential and Public Open<br>e <sup>12</sup>                                                                                                                                                                                                             | 100                                 |                          | 410                                   | 180         | Source<br>Source                                                   | depths (1 m t<br>depths (2 m t                                                                  | o <4 m. BGL)                                                                  | 450       |                                     | 0.7                                           |                                    | NL                   | 9                                                    | NL                                                      | NL                                            |                                          |             |             | 1,300          | 5,600        |                   |                                            | 180                                                     |                   |                                           |                                                              |
| Soil texture class<br>EILs / ESLs - Urban Resid                                                                                                                    | sification – Clay<br>idential and Public Open<br>$e^{1/2}$<br>esidential, parkland and                                                                                                                                                                                       | 100                                 |                          | 410                                   | 180         | Source<br>Source<br>Sou                                            | depths (1 m t<br>depths (2 m t                                                                  | o <4 m. BGL)<br>m + BGL)                                                      | 450       |                                     | 0.7                                           |                                    | NL<br>NL             | 9                                                    | NL<br>NL                                                | NL<br>NL                                      | NL                                       | NL          | NL          | 1,300<br>3,500 | 5,600        |                   |                                            | 180                                                     |                   |                                           |                                                              |
| Soil texture class<br>EILs / ESLs - <i>Urban Resid</i><br><i>Space</i><br>Management Limits – <i>Re</i> .                                                          | sification – Clay<br>idential and Public Open<br>$e^{1/2}$<br>esidential, parkland and                                                                                                                                                                                       | 100                                 |                          | 410                                   | 180         | Source<br>Source<br>Sou                                            | depths (1 m t<br>depths (2 m t                                                                  | o <4 m. BGL)<br>m + BGL)                                                      | 450       |                                     |                                               | EPA (2014) Waste                   | NL<br>NL<br>170      | 9<br>20<br>65                                        | NL<br>NL                                                | NL<br>NL                                      | NL                                       | NL<br>180   | NL<br>120   |                |              |                   |                                            | 180                                                     |                   |                                           |                                                              |
| Soil texture class<br>EILs / ESLs - <i>Urban Resid</i><br><i>Space</i><br>Management Limits – <i>Re</i> .                                                          | dential and Public Open<br>e <sup>-1-2</sup><br>esidential, parkland and<br>in space <sup>1</sup><br>CT1 (mg/kg)                                                                                                                                                             | 100                                 | 20                       | 100                                   | 180         | Source<br>Source<br>Sou<br>1,100                                   | depths (1 m t<br>depths (2 m t<br>rrce depths (4                                                | o <4 m. BGL)<br>m + BGL)<br>100<br>40                                         | 450       |                                     | NSW E<br>0.8                                  | 200                                | NL<br>NL<br>170      | 9<br>20<br>65<br>on Criteria<br>10                   | NL<br>NL<br>105<br>288                                  | NL<br>NL<br>125<br>600                        | NL<br>45<br>1,000                        | NL<br>180   | NL<br>120   |                |              | 650               | 10,000                                     | <50                                                     | 250               | <50                                       |                                                              |
| Soil texture class<br>EILs / ESLs - <i>Urban Resic<br/>Space</i><br>Management Limits - <i>Re.</i><br><i>public oper</i>                                           | sification – Clay<br>idential and Public Open<br>e <sup>1 2</sup><br>esidential, parkland and<br>in space <sup>1</sup><br>CT1 (mg/kg)<br>TCLP1 (mg/k) /<br>SCC1 (mg/kg)                                                                                                      | 100<br>5 / 500                      | 1 / 100                  | 100<br>5 / 1,900                      | 180         | Source<br>Source<br>Source<br>1,100<br>100<br>5 / 1,500            | depths (1 m t)           depths (2 m t)           rrce depths (4           4           0.2 / 50 | 0 <4 m. BGL)<br>m + BGL)<br>100<br>40<br>2 / 1,050                            | 450       |                                     | NSW E<br>0.8<br>0.04 / 10                     | 200<br>NR / 200                    | NL<br>NL<br>170      | 9<br>20<br>65<br>on Criteria<br>10<br>0.5 / 18       | NL<br>NL<br>105<br>288<br>14.4 / 518                    | NL<br>NL<br>125<br>600<br>30 / 1,080          | NL<br>45<br>1,000<br>50 / 1,800          | NL<br>180   | NL<br>120   |                |              | NR / 650          | NR /<br>10,000                             | <50<br>NR / <50                                         | NR / 250          | NR / <50                                  | If detected<br>material is                                   |
| Soil texture class<br>EILs / ESLs - <i>Urban Resic<br/>Space</i><br>Management Limits - <i>Re.</i><br><i>public oper</i>                                           | sification - Clay<br>idential and Public Open<br>e <sup>1-2</sup><br>esidential, parkland and<br>in space <sup>1</sup><br>TCLP1 (mg/kg)<br>TCLP1 (mg/kg)<br>CT2 (mg/kg)                                                                                                      | 100<br>5 / 500<br>400               | 1 / 100<br>80            | 100<br>5 / 1,900<br>400               |             | Source<br>Source<br>Sou<br>1,100<br>5 / 1,500<br>400               | depths (1 m l<br>depths (2 m l<br>rcc depths (4<br>4<br>0.2 / 50<br>16                          | 0 <4 m. BGL)<br>m + BGL)<br>100<br>40<br>2 / 1,050<br>160                     | 450       |                                     | NSW F<br>0.8<br>0.04 / 10<br>3.2              | 200<br>NR / 200<br>800             | NL<br>NL<br>170      | 9<br>20<br>65<br>00 Criteria<br>10<br>0.5 / 18<br>40 | NL<br>NL<br>105<br>288<br>14.4 / 518<br>1,152           | NL<br>NL<br>125<br>600<br>30 / 1,080<br>2,400 | NL<br>45<br>1,000<br>50 / 1,800<br>4,000 | NL<br>180   | NL<br>120   |                |              | NR / 650<br>2,600 | NR /<br>10,000<br>40,000                   | <50<br>NR / <50<br>NR                                   | NR / 250<br>1,000 | NR / <50<br>NR                            | If detected<br>material is<br>Special<br>Waste -             |
| Soll texture class<br>EILs / ESLs - Urban Resid<br>Space<br>Management Limits – Re<br>public oper<br>General Solid Waste                                           | sification – Clay<br>idential and Public Open<br>e <sup>1 2</sup><br>esidential, parkland and<br>in space <sup>1</sup><br>CT1 (mg/kg)<br>TCLP1 (mg/k) /<br>SCC1 (mg/kg)                                                                                                      | 100<br>5 / 500                      | 1 / 100                  | 100<br>5 / 1,900                      |             | Source<br>Source<br>Source<br>1,100<br>100<br>5 / 1,500            | depths (1 m t)           depths (2 m t)           rrce depths (4           4           0.2 / 50 | 0 <4 m. BGL)<br>m + BGL)<br>100<br>40<br>2 / 1,050                            | 450       |                                     | NSW E<br>0.8<br>0.04 / 10                     | 200<br>NR / 200                    | NL<br>NL<br>170      | 9<br>20<br>65<br>on Criteria<br>10<br>0.5 / 18       | NL<br>NL<br>105<br>288<br>14.4 / 518                    | NL<br>NL<br>125<br>600<br>30 / 1,080          | NL<br>45<br>1,000<br>50 / 1,800          | NL<br>180   | NL<br>120   |                |              | NR / 650          | NR /<br>10,000                             | <50<br>NR / <50<br>NR<br>NR / <50                       | NR / 250          | NR / <50<br>NR<br>NR / <50                | If detected<br>material is<br>Special                        |
| Soll texture class<br>EILs / ESLs - Urban Resid<br>Space<br>Management Limits – Re<br>public oper<br>General Solid Waste                                           | sification – Clay<br>idential and Public Open<br>e <sup>1 2</sup><br>scidential, parkland and<br>in space <sup>1</sup><br>CT1 (mg/kg)<br>TCLP1 (mg/L) /<br>SCC1 (mg/kg)<br>TCLP2 (mg/L) /<br>SCC2 (mg/kg)                                                                    | 100<br>5 / 500<br>400               | 1 / 100<br>80            | 100<br>5 / 1,900<br>400               |             | Source<br>Source<br>Sou<br>1,100<br>5 / 1,500<br>400               | depths (1 m l<br>depths (2 m l<br>rcc depths (4<br>4<br>0.2 / 50<br>16                          | 0 <4 m. BGL)<br>m + BGL)<br>100<br>40<br>2 / 1,050<br>160                     | 450       |                                     | NSW F<br>0.8<br>0.04 / 10<br>3.2              | 200<br>NR / 200<br>800             | NL<br>NL<br>170      | 9<br>20<br>65<br>00 Criteria<br>10<br>0.5 / 18<br>40 | NL<br>NL<br>105<br>288<br>14.4 / 518<br>1,152<br>57.6 / | NL<br>NL<br>125<br>600<br>30 / 1,080<br>2,400 | NL<br>45<br>1,000<br>50 / 1,800<br>4,000 | NL<br>180   | NL<br>120   |                |              | NR / 650<br>2,600 | NR /<br>10,000<br>40,000<br>NR /           | <50<br>NR / <50<br>NR<br>NR<br>> 2 mg/kg -<br>Scheduled | NR / 250<br>1,000 | NR / <50<br>NR                            | If detected<br>material is<br>Special<br>Waste -<br>Asbestos |
| Soil texture class<br>EILs / ESLs - Urban Resid<br>Space<br>Management Limits – Re-<br>public oper<br>General Soild Waste<br>Restricted Solid Waste                | sification – Clay<br>idential and Public Open<br>e <sup>1 2</sup><br>scidential, parkland and<br>in space <sup>1</sup><br>CT1 (mg/kg)<br>TCLP1 (mg/L) /<br>SCC1 (mg/kg)<br>TCLP2 (mg/L) /<br>SCC2 (mg/kg)<br>Scheduled Waste<br>Maximum Average                              | 100<br>5 / 500<br>400<br>20 / 2,000 | 1 / 100<br>80<br>4 / 400 | 100<br>5 / 1,900<br>400<br>20 / 7,600 |             | Source<br>Source<br>Sou<br>1,100<br>5 / 1,500<br>400<br>20 / 6,000 | depths (1 m i<br>depths (2 m i<br>rce depths (4<br>0.2 / 50<br>16<br>0.8 / 200                  | o <4 m. BGL)<br>m + BGL)<br>100<br>2 / 1,050<br>2 / 1,050<br>160<br>8 / 4,200 |           |                                     | NSW E<br>0.8<br>0.04 / 10<br>3.2<br>0.16 / 23 | 200<br>NR / 200<br>800<br>NR / 800 | NL<br>NL<br>170      | 9<br>20<br>65<br>00 Criteria<br>10<br>0.5 / 18<br>40 | NL<br>NL<br>105<br>288<br>14.4 / 518<br>1,152<br>57.6 / | NL<br>NL<br>125<br>600<br>30 / 1,080<br>2,400 | NL<br>45<br>1,000<br>50 / 1,800<br>4,000 | NL<br>180   | NL<br>120   |                |              | NR / 650<br>2,600 | NR /<br>10,000<br>40,000<br>NR /<br>40,000 | <50<br>NR / <50<br>NR<br>NR / <50<br>> 2 mg/kg -        | NR / 250<br>1,000 | NR / <50<br>NR<br>NR / <50<br>> 2 mg/kg - | If detected<br>material is<br>Special<br>Waste -<br>Asbestos |
| Soll texture class EILs / ESLs - Urban Resid<br>Space Management Limits - Re-<br>public oper General Solid Waste Restricted Solid Waste Special Waste / Sc NSW EPA | sification - Clay<br>idential and Public Open<br>e <sup>1-2</sup><br>esidential, parkland and<br>in space <sup>1</sup><br>CT1 (mg/kg)<br>TCLP1 (mg/kg)<br>CT2 (mg/kg)<br>TCLP2 (mg/k) /<br>SCC2 (mg/kg)<br>Scheduled Waste<br>Maximum Average<br>Concentration<br>(mg/kg)    | 100<br>5 / 500<br>400               | 1 / 100<br>80            | 100<br>5 / 1,900<br>400               |             | Source<br>Source<br>Sou<br>1,100<br>5 / 1,500<br>400               | depths (1 m l<br>depths (2 m l<br>rcc depths (4<br>4<br>0.2 / 50<br>16                          | 0 <4 m. BGL)<br>m + BGL)<br>100<br>40<br>2 / 1,050<br>160                     | 450       |                                     | NSW F<br>0.8<br>0.04 / 10<br>3.2              | 200<br>NR / 200<br>800             | NL<br>NL<br>170      | 9<br>20<br>65<br>00 Criteria<br>10<br>0.5 / 18<br>40 | NL<br>NL<br>105<br>288<br>14.4 / 518<br>1,152<br>57.6 / | NL<br>NL<br>125<br>600<br>30 / 1,080<br>2,400 | NL<br>45<br>1,000<br>50 / 1,800<br>4,000 | NL<br>180   | NL<br>120   |                |              | NR / 650<br>2,600 | NR /<br>10,000<br>40,000<br>NR /           | <50<br>NR / <50<br>NR<br>NR<br>> 2 mg/kg -<br>Scheduled | NR / 250<br>1,000 | NR / <50<br>NR<br>NR / <50<br>> 2 mg/kg - | If detected<br>material is<br>Special<br>Waste -<br>Asbestos |
| Soll texture class EILs / ESLs - Urban Resid<br>Space Management Limits – Re<br>public oper General Solid Waste Restricted Solid Waste Special Waste / So          | sification – Clay<br>idential and Public Open<br>e <sup>12</sup><br>esidential, parkland and<br>en space <sup>1</sup><br>CT1 (mg/kg)<br>TCLP1 (mg/kg)<br>CT2 (mg/kg)<br>CT2 (mg/kg)<br>TCLP2 (mg/L) /<br>SCC2 (mg/kg)<br>Scheduled Waste<br>Maximum Average<br>Concentration | 100<br>5 / 500<br>400<br>20 / 2,000 | 1 / 100<br>80<br>4 / 400 | 100<br>5 / 1,900<br>400<br>20 / 7,600 |             | Source<br>Source<br>Sou<br>1,100<br>5 / 1,500<br>400<br>20 / 6,000 | depths (1 m i<br>depths (2 m i<br>rce depths (4<br>0.2 / 50<br>16<br>0.8 / 200                  | o <4 m. BGL)<br>m + BGL)<br>100<br>2 / 1,050<br>2 / 1,050<br>160<br>8 / 4,200 |           |                                     | NSW E<br>0.8<br>0.04 / 10<br>3.2<br>0.16 / 23 | 200<br>NR / 200<br>800<br>NR / 800 | NL<br>NL<br>170      | 9<br>20<br>65<br>00 Criteria<br>10<br>0.5 / 18<br>40 | NL<br>NL<br>105<br>288<br>14.4 / 518<br>1,152<br>57.6 / | NL<br>NL<br>125<br>600<br>30 / 1,080<br>2,400 | NL<br>45<br>1,000<br>50 / 1,800<br>4,000 | NL<br>180   | NL<br>120   |                |              | NR / 650<br>2,600 | NR /<br>10,000<br>40,000<br>NR /<br>40,000 | <50<br>NR / <50<br>NR<br>NR<br>> 2 mg/kg -<br>Scheduled | NR / 250<br>1,000 | NR / <50<br>NR<br>NR / <50<br>> 2 mg/kg - | If detected<br>material is<br>Special<br>Waste -<br>Asbestos |

|                        | Highlighted values exceed HIL / HSL                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | Highlighted values exceed EIL / ESL                                                                                                                                                                                                                              |
|                        | Concentration exceeds highlighted criteria                                                                                                                                                                                                                       |
| Results are recorded i | in mgkg                                                                                                                                                                                                                                                          |
| HIL A                  | NEPC 1999 Amendment 2013 /HL A'- Health based Residential with garden / accessible soil, also includes children's day care centres, preschools and primary schools.                                                                                              |
| HIL B                  | NEPC 1999 Amendment 2013 'HIL B' - Health based Residential with minimal opportunities for soil access including dwellings with fully and permanenelly paved yard space such as high-rise buildings and apartments.                                              |
| HIL C                  | NEPC 1999 Amendment 2013 'HIL C' - Health based public open space such as parks, playgrounds, playing fields, secondary schools and footpaths.                                                                                                                   |
| HIL D                  | NEPC 1999 Amendment 2013 'HIL D' - Health based commercial / industrial settings.                                                                                                                                                                                |
| HSLA&B                 | NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels applicable for vapour intrusion values applicable for low-high density residential settings.                                                                                                  |
| HSL C                  | NEPC 1999 Amendment 2013 'HSL C' Health Based Screening Levels applicable for vapour intrusion values applicable for recreational/open space settings.                                                                                                           |
| HSL D                  | NEPC 1999 Amendment 2013 'HSL D' Health Based Screening Levels applicable for vapour intrusion values applicable for commercial / industrial settings.                                                                                                           |
| EIL                    | Ecological Investigation Level for urban residential and public open space land use.                                                                                                                                                                             |
| ESL                    | Ecology Screening Level for urban residential and public open space land use.                                                                                                                                                                                    |
| GSW                    | NSW EPA 2014 General Solid Waste Thresholds, in Waste Classification Guidelines, Table 1 (CT1) and Table 2 (TCLP1 / SCC1)                                                                                                                                        |
| RSW                    | NSW EPA 2014 Restricted Solid Waste Thresholds, in Waste Classification Guidelines, Table 1 (CT2) and Table 2 (TCLP2 / SCC2)                                                                                                                                     |
| NA                     | Not Analysed                                                                                                                                                                                                                                                     |
| NL                     | Not Limiting if the derived soil vapour limit exceeds the soil concentration at which the pore water phase cannot dissolve any more of the individual chemical                                                                                                   |
| NC                     | Not calculated                                                                                                                                                                                                                                                   |
| 1                      | As strata is predominantly clay, fine grained soil assessment criteria values were applied.                                                                                                                                                                      |
| 2                      | EIL/ESL were calculated based on the average results of pH (6.1) and CEC (7.8 meq/100g) for a high traffic NSW suburb.                                                                                                                                           |
| 3                      | NSW EPA Scheduled Chemical Wastes Chemical Control Order 2004. Section 4.14                                                                                                                                                                                      |
| 4                      | NSW EPA Polychiarinated Biphenyl (PCB) Chemical Control Order 1997. Where PCBs are reported at concentrations >2 mg/kg and <50 mg/kg, material is non-scheduled PCB waste. Where PCBs are reported at concentrations >50 mg/kg, material is scheduled PCB waste. |
| 5                      | ENM Exemption and Order (NSW EPA, 2014).                                                                                                                                                                                                                         |
| F1                     | To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.                                                                                                                                                                                   |
| F2                     | To obtain F2 subtract naphthalene from the >C10-C16 fraction.                                                                                                                                                                                                    |
| F3                     | (>C16-C34)                                                                                                                                                                                                                                                       |
| F4                     | (>C34-C40)                                                                                                                                                                                                                                                       |
|                        |                                                                                                                                                                                                                                                                  |



|                          |     | Electrical                   |                 |             | Adopted                  |            | Cation Exchange Capacity | Exchangeable Sodium |      | C    | ations (mg/kg | ;)  |     | Anions   | (mg/kg) |                                  |
|--------------------------|-----|------------------------------|-----------------|-------------|--------------------------|------------|--------------------------|---------------------|------|------|---------------|-----|-----|----------|---------|----------------------------------|
| Sample                   | рН  | Conductivity (EC -<br>µs/cm) | Soil Texture    | ECe (µS/cm) | Multiplication<br>Factor | ECe (dS/m) | (CEC - meq/100)          | Percentage (%)      | Ca   | Mg   | Na            | к   | Mn  | Chloride | Sulfate | Soil Salinity Class <sup>1</sup> |
| BH2_1.9-2.0              | 4.6 | 73                           | Sandy Clay      | 657         | 9                        | 0.657      | 3.6                      | 11.7                | 1900 | 590  | 170           | 280 | 51  | 18       | 110     | Non-Saline                       |
| BH2_2.9-3.0              | 4.7 | 85                           | Sandy Clay      | 765         | 9                        | 0.765      | 13                       | 3.4                 | 4400 | 1300 | 320           | 340 | 110 | 16       | 130     | Non-Saline                       |
| BH3M_2.8-2.9             | 9.4 | 130                          | Sandy Clay Loam | 1170        | 9                        | 1.17       | 17                       | 2.2                 | 3400 | 650  | 130           | 240 | 47  | 22       | 92      | Non-Saline                       |
| BH4M_4.4-4.5             | 5.5 | 60                           | Loamy Sand      | 840         | 14                       | 0.84       | 2.9                      | 27.5                | 1100 | 350  | 290           | 320 | 13  | 6.5      | 83      | Non-Saline                       |
| BH4M_4.9-5.0             | 6.1 | 47                           | Loamy Sand      | 658         | 14                       | 0.658      | 2.3                      | 27.3                | 66   | 120  | 170           | 280 | 5   | 10       | 64      | Non-Saline                       |
| <sup>1</sup> DLWC (2002) |     |                              |                 |             |                          |            |                          |                     |      |      |               |     |     |          |         |                                  |



#### Table T2 - Summary of Groundwater Analytical Results

|                             |                                               |                    |                        |                  |                            | Met     | als       |                   |     |                 |            | PAHs           |                 |                  |                  | BTEX            |                  |                  |                 | TR              | RHs              |                  |                    | vo                           | Cs                           |           |     |               |
|-----------------------------|-----------------------------------------------|--------------------|------------------------|------------------|----------------------------|---------|-----------|-------------------|-----|-----------------|------------|----------------|-----------------|------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|------------------|--------------------|------------------------------|------------------------------|-----------|-----|---------------|
| Sample ID                   |                                               | Impling<br>Date    | As                     | Cd               | Cr                         | Cu      | Pb        | Hg                | Ni  | Zn              | Total PAHs | Benzo(ɑ)pyrene | Naphthalene     | Benzene          | Toluene          | Ethylbenzene    | o-xylene         | m/p-xylene       | F1              | F2              | F3               | F4               | Chloroform (THM) * | Bromodichloromethane (THM) * | Dibromochloromethane (THM) * | Total VOC | рН  | EC<br>(µS/cm) |
| Detailed Site Investigation | (EI, 2020)                                    |                    |                        |                  | T                          |         |           |                   |     |                 |            | 1              |                 |                  |                  |                 | 1                |                  | 1               |                 | 1                |                  | 1                  | 1                            |                              |           |     |               |
| BH3M-a                      |                                               |                    | <1                     | <0.1             | 1                          | 22      | <1        | <0.1              | 26  | 74              | <1         | <0.1           | <0.1            | <0.5             | <0.5             | <0.5            | <0.5             | <1               | <50             | <60             | <500             | <500             | 9.2                | 2.3                          | 0.6                          | 13        | 5.1 | 1,200         |
| BH4M-a                      | 29                                            | /7/2020            | <1                     | <0.1             | 170                        | 24      | <1        | <0.1              | 3   | 21              | <1         | <0.1           | <0.1            | <0.5             | <0.5             | <0.5            | <0.5             | <1               | 52              | <60             | <500             | <500             | 39                 | 6.6                          | 1.6                          | 48        | 6.3 | 980           |
| BH5M                        |                                               |                    | 1                      | 0.2              | 3                          | 23      | 11        | <0.1              | 27  | 180             | <1         | <0.1           | <0.1            | <0.5             | <0.5             | <0.5            | <0.5             | <1               | <50             | 76              | <500             | <500             | 1.7                | <0.5                         | <0.5                         | <10       | 4.6 | 4,100         |
| BH4M-a                      | 18                                            | 8/8/2020           | 2                      | 0.2              | 1                          | 22      | 30        | <0.1              | 38  | 240             | NA         | NA             | NA              | NA               | NA               | NA              | NA               | NA               | NA              | NA              | NA               | NA               | NA                 | NA                           | NA                           | NA        | NA  | NA            |
| <b>.</b>                    | <u> </u>                                      |                    |                        |                  |                            |         |           |                   |     |                 | L .        | Statistica     | ,               |                  |                  |                 |                  |                  |                 |                 |                  |                  |                    |                              |                              |           |     |               |
| Maximum                     | Concentration                                 |                    | 2                      | 0.2              | 170                        | 24      | 30        | <0.1              | 38  | 240             | <1         | <0.1           | <0.1            | <0.5             | <0.5             | <0.5            | <0.5             | <1               | 52              | 76              | <500             | <500             | 39                 | 6.6                          | 1.6                          | 48        | 6.3 | 4,100         |
|                             |                                               |                    |                        |                  |                            |         | 2m to     | <1m               |     |                 |            | G              | NL              | 800              | NL               | NL              | NL               | NL               | 1,000           | 1,000           |                  |                  |                    |                              |                              |           |     |               |
| HSL A & B - Low to          |                                               |                    |                        |                  |                            |         | 4m to     |                   |     |                 |            |                | NL              | 800              | NL               | NL              | NL               | NL               | 1,000           | 1,000           | -                |                  |                    |                              |                              |           |     |               |
| Soil texture cl             | lassification – Sand                          | t t                |                        |                  |                            |         | 4111 to - |                   |     |                 |            |                | NL              | 900              | NL               | NL              | NL               | NL               | 1,000           | 1,000           |                  |                  |                    |                              |                              |           |     |               |
|                             |                                               |                    |                        |                  |                            |         | 2m to     |                   |     |                 |            |                | NL              | NL               | NL               | NL              | NL               | NL               | NL              | NL              |                  |                  |                    |                              |                              |           |     |               |
|                             | ational / open space                          |                    |                        |                  |                            |         | 4m to     |                   |     |                 |            |                | NL              | NL               | NL               | NL              | NL               | NL               | NL              | NL              |                  |                  |                    |                              |                              |           |     |               |
| Soil texture cl             | lassification – Sand                          | t t                |                        |                  |                            |         | 8m-       |                   |     |                 |            |                | NL              | NL               | NL               | NL              | NL               | NL               | NL              | NL              |                  |                  |                    |                              |                              |           |     |               |
|                             |                                               |                    |                        |                  |                            |         | 2m to     | <4m               |     |                 |            |                | NL              | 5,000            | NL               | NL              | NL               | NL               | 6,000           | NL              |                  |                  |                    |                              |                              |           |     |               |
|                             | nmercial / industrial<br>lassification – Sand | 1                  |                        |                  |                            |         | 4m to     | <8m               |     |                 |            |                | NL              | 5,000            | NL               | NL              | NL               | NL               | 6,000           | NL              |                  |                  |                    |                              |                              |           |     |               |
| Soli lexture ci             | lassification – Sanu                          | '                  |                        |                  |                            |         | 8m-       | +                 |     |                 |            |                | NL              | 5,000            | NL               | NL              | NL               | NL               | 7,000           | NL              |                  |                  |                    |                              |                              |           |     |               |
|                             | Fresh Wate                                    | ers <sup>1</sup>   | 24 (AsIII)<br>13 (AsV) | 0.2              | 1 <sup>3</sup> (Cr VI)     | 1.4     | 3.4       | 0.06 <sup>2</sup> | 11  | 8 <sup>3</sup>  |            |                | 16              | 950              | 180 <sup>4</sup> | 80 <sup>4</sup> | 350              | 275 <sup>4</sup> | 50 <sup>5</sup> | 60 <sup>5</sup> | 500 <sup>5</sup> | 500 <sup>5</sup> |                    |                              |                              |           |     |               |
| GILs                        | Marine Wate                                   | ers <sup>1</sup>   |                        | 0.7 <sup>2</sup> | 27 (Cr III)<br>4.4 (Cr IV) | 1.3     | 4.4       | 0.1 <sup>2</sup>  | 7   | 15 <sup>3</sup> |            |                | 50 <sup>3</sup> | 500 <sup>3</sup> | 180 <sup>4</sup> | 5 <sup>4</sup>  | 350 <sup>4</sup> | 275 <sup>4</sup> | 50 <sup>5</sup> | 60 <sup>5</sup> | 500 <sup>5</sup> | 500 <sup>5</sup> |                    |                              |                              |           |     |               |
|                             | Recreational W                                | Vater <sup>6</sup> | 100                    | 20               |                            | 1,000 * | 100       | 10                | 200 | 3,000*          |            |                |                 | 10               | 25*              | 3*              | 20 *             | 20 *             |                 |                 |                  |                  |                    | 2,500                        |                              |           |     |               |

#### Notes:

| Notes:                    |                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | Highlighted indicates criteria exceeded                                                                                                                                                                                                     |
| All values are µg/L unles | ss stated otherwise                                                                                                                                                                                                                         |
| HSL A & B                 | NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels for vapour intrusion applicable for low-high density residential settings.                                                                                               |
| HSL C                     | NEPC 1999 Amendment 2013 'HSL C' Health Based Screening Levels for vapour intrusion applicable for recreational/open space settings.                                                                                                        |
| HSL D                     | NEPC 1999 Amendment 2013 'HSL D' Health Based Screening Levels for vapour intrusion applicable for commercial / industrial settings.                                                                                                        |
| NL                        | Not Limiting                                                                                                                                                                                                                                |
| NA                        | 'Not Analysed' i.e. the sample was not analysed.                                                                                                                                                                                            |
| ND                        | Not Detected - i.e. concentration below the laboratory PQL                                                                                                                                                                                  |
| F1                        | To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.                                                                                                                                                              |
| F2                        | To obtain F2 subtract naphthalene from the >C10-C16 fraction.                                                                                                                                                                               |
| F3                        | (>C16-C34)                                                                                                                                                                                                                                  |
| F4                        | (>C34-C40)                                                                                                                                                                                                                                  |
| *                         | Only thoes VOC values above the laboratory PQL have been tabulated.                                                                                                                                                                         |
| 1                         | NEPM (2013) Groundwater Investigation Levels for fresh and marine water quality, based on ANZECC & ARMCANZ (2000).                                                                                                                          |
| 2                         | Chemical for which possible bioaccumulation and secondary poisoning effects should be considered, refer to ANZG (2018) for further guidance.                                                                                                |
| 3                         | Figure may not protect key species from chronic toxicity, refer to ANZECC & ARMCANZ (2000) for further guidance                                                                                                                             |
| 4                         | Low reliability toxicity data, refer to ANZECC & ARMCANZ (2000)                                                                                                                                                                             |
| 5                         | In lack of a criteria the laboratory PQL has been used (DEC, 2007).                                                                                                                                                                         |
| 6                         | Based on NHMRC (2011 - update August 2018 v.3.5) Drinking Water Guidelines. The lowest of the Health Guideline x10 or the Aesthetic Guideline has been chosen as the assessment criteria. Aesthetic based criteria have been indicated by * |
|                           |                                                                                                                                                                                                                                             |



#### Table J-2 Summary of QA/QC results for Investigation samples

|                       | ź            |                           |        |      | RH                                       |                                          |         | BT      | ΈX           |                |         |         |                  | Heavy  | Metals |         |        |       |
|-----------------------|--------------|---------------------------|--------|------|------------------------------------------|------------------------------------------|---------|---------|--------------|----------------|---------|---------|------------------|--------|--------|---------|--------|-------|
| Sample identification | Sampled Date | Description               | F1*    | F2** | F3 (>C <sub>16</sub> - C <sub>34</sub> ) | F4 (>C <sub>34</sub> - C <sub>40</sub> ) | Benzene | Toluene | Ethylbenzene | Xylene (total) | Arsenic | Cadmium | Chromium (Total) | Copper | Lead   | Mercury | Nickel | Zinc  |
| Intra-laboratory Du   | plicate      |                           |        |      | -                                        |                                          |         |         |              | -              |         |         | -                | -      |        |         |        |       |
| TP8_0.1-0.2           | 8/7/2020     | Fill                      | <25    | <25  | <90                                      | <120                                     | <0.1    | <0.1    | <0.1         | <0.3           | 5       | <0.3    | 24               | 26     | 12     | <0.05   | 18     | 27    |
| QD1                   | 8/1/2020     | Replicate of TP8_0.1-0.2  | <25    | <25  | <90                                      | <120                                     | <0.1    | <0.1    | <0.1         | <0.3           | 4       | <0.3    | 19               | 21     | 12     | <0.05   | 15     | 27    |
|                       | RPL          | D                         | 0.00   | 0.00 | 0.00                                     | 0.00                                     | 0.00    | 0.00    | 0.00         | 0.00           | 22.22   | 0.00    | 23.26            | 21.28  | 0.00   | 0.00    | 18.18  | 0.00  |
| TP17_0.1-0.2          | 8/7/2020     | Fill                      | <25    | <25  | <90                                      | <120                                     | <0.1    | <0.1    | <0.1         | <0.3           | 4       | <0.3    | 10               | 12     | 12     | <0.05   | 9.8    | 32    |
| QD2                   | 0/1/2020     | Replicate of TP17_0.1-0.2 | <25    | <25  | <90                                      | <120                                     | <0.1    | <0.1    | <0.1         | <0.3           | 4       | <0.3    | 9.9              | 12     | 13     | <0.05   | 12     | 33    |
|                       | RPL          | 0                         | 0.00   | 0.00 | 0.00                                     | 0.00                                     | 0.00    | 0.00    | 0.00         | 0.00           | 0.00    | 0.00    | 1.01             | 0.00   | 8.00   | 0.00    | 20.18  | 3.08  |
| BH3M-a                | 29/7/2020    | Groundwater               | <50    | <60  | <500                                     | <500                                     | <0.5    | <0.5    | <0.5         | <1.5           | <1      | <0.1    | 1                | 22     | <1     | <0.1    | 26     | 74    |
| GWQD1                 | 29/1/2020    | Replicate of BH3M-a       | <50    | <60  | <500                                     | <500                                     | <0.5    | <0.5    | <0.5         | <1.5           | 1       | <0.1    | 1                | 26     | <1     | <0.1    | 25     | 71    |
|                       | RPL          | 0                         | 0.00   | 0.00 | 0.00                                     | 0.00                                     | 0.00    | 0.00    | 0.00         | 0.00           | 0.00    | 0.00    | 0.00             | 16.67  | 0.00   | 0.00    | 3.92   | 4.14  |
| Inter-laboratory Du   | plicate      |                           |        |      |                                          |                                          |         |         |              |                |         |         |                  |        |        |         |        |       |
| TP8_0.1-0.2           | 8/7/2020     | Fill                      | <25    | <25  | <90                                      | <120                                     | <0.1    | <0.1    | <0.1         | <0.3           | 5       | <0.3    | 24               | 26     | 12     | <0.05   | 18     | 27    |
| QT1                   | 8/1/2020     | Replicate of TP8_0.1-0.2  | <25    | <50  | <100                                     | <100                                     | <0.2    | <0.5    | <1           | <3             | 4       | <0.4    | 31               | 26     | 18     | <0.1    | 18     | 33    |
|                       | RPL          | D                         | 0.00   | NA   | NA                                       | NA                                       | NA      | NA      | NA           | NA             | 22.22   | NA      | 25.45            | 0.00   | 40.00  | NA      | 0.00   | 20.00 |
| TP17_0.1-0.2          | 8/7/2020     | Fill                      | <25    | <25  | <90                                      | <120                                     | <0.1    | <0.1    | <0.1         | <0.3           | 4       | <0.3    | 10               | 12     | 12     | <0.05   | 9.8    | 32    |
| QT2                   | 0/1/2020     | Replicate of TP17_0.1-0.2 | <25    | <50  | <100                                     | <100                                     | <0.2    | <0.5    | <1           | <3             | 8       | <0.4    | 29               | 35     | 28     | <0.1    | 26     | 72    |
|                       | RPD          | D                         | 0.00   | NA   | NA                                       | NA                                       | NA      | NA      | NA           | NA             | 66.67   | NA      | 97.44            | 97.87  | 80.00  | NA      | 90.50  | 76.92 |
| BH3M-a                | 29/7/2020    | Groundwater               | <50    | <60  | <500                                     | <500                                     | <0.5    | <0.5    | <0.5         | <1.5           | <1      | <0.1    | 1                | 22     | <1     | <0.1    | 26     | 74    |
| GWQT1                 | 29/1/2020    | Replicate of BH3M-a       | 15     | <50  | <100                                     | <100                                     | <1      | <1      | <1           | <3             | <1      | 0.2     | 1                | 7      | <1     | <0.05   | 24     | 100   |
|                       | RPL          |                           | 175.00 | NA   | NA                                       | NA                                       | NA      | NA      | NA           | NA             | 0.00    | 80.00   | 0.00             | 103.45 | 0.00   | NA      | 8.00   | 29.89 |
| QTB1                  |              | Trip blank                | -      | -    | -                                        | -                                        | <0.1    | <0.1    | <0.1         | <0.3           | -       | -       | -                | -      | -      | -       | -      | -     |
| QTS1                  | 8/7/2020     | Trip spike                | -      | -    | -                                        | -                                        | [87%]   | [89%]   | [90%]        | [91%]          | -       | -       | -                | -      | -      | -       | -      | -     |
| QR1                   |              | Rinsate                   | <50    | <60  | <500                                     | <500                                     | <0.5    | <0.5    | <0.5         | <1.5           | <1      | <0.1    | <1               | <1     | <1     | <0.1    | <1     | <5    |
| GWTB1                 |              | Trip blank                | -      | -    | -                                        | -                                        | <0.5    | <0.5    | <0.5         | <1.5           | -       | -       | -                | -      | -      | -       | -      | -     |
| GWTS1                 | 29/7/2020    | Trip spike                | -      | -    | -                                        | -                                        | [99%]   | [99%]   | [99%]        | [99%]          | -       | -       | -                | -      | -      | -       | -      | -     |
| GWQR1                 |              | Rinsate                   | <50    | <60  | <500                                     | <500                                     | <0.5    | <0.5    | <0.5         | <1.5           | <1      | <0.1    | <1               | <1     | <1     | <0.1    | <1     | <5    |

Indicates values where a single result is found to be less than detection, with the duplicate sample found to be over the detection limit. RPD exceeds 30-50% range referenced from AS4482.1 (2005)

#### NOTE:

All soil results are reported in mg/kg . All water results are reported in  $\mu\text{g/L}.$ 

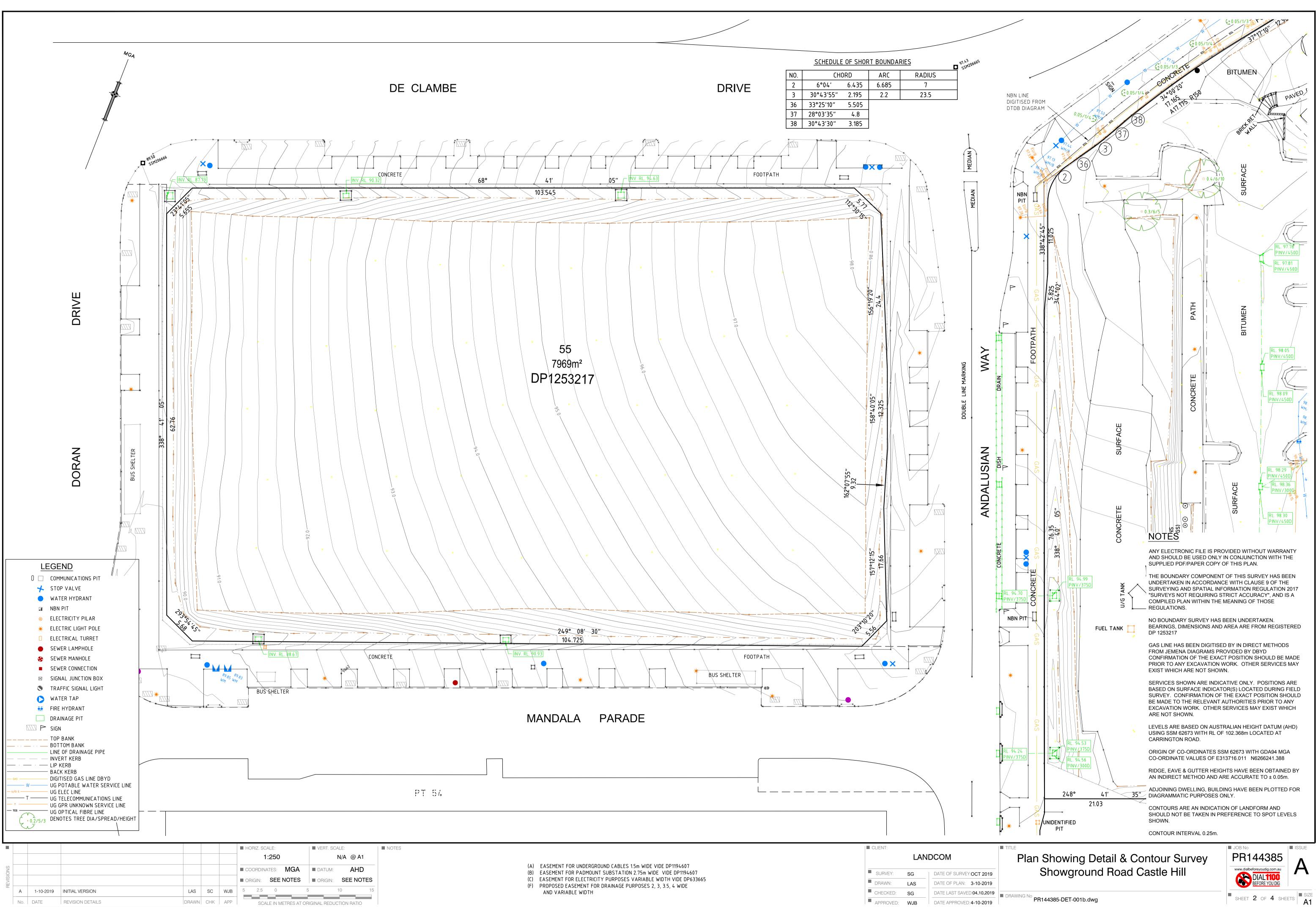
 $^{\ast}$  - to obtain F1 subtract the sum of BTEX concentrations from the  $C_{6}\text{-}C_{10}$  fraction

\*\* - to obtain F2 subtract naphthalene from the >  $\rm C_{10}\text{-}C_{16}$  fraction



Appendix C - Development Plans





T: 02 8884 6900 F: 02 8884 6999 www.rpsgroup.com.au

THIS IS A COLOURED PLAN. **REPRODUCTION IN COLOUR ONLY.** 

MAKING COMPLEX EASY N:\Projects\144K\PR144385 - Hills Showground Precinct - Landcom\05 Drafting\Survey\02 Detail\PR144385-DET-001b.dwg



NOTES

| Project Title                                                                 | Scale                                        | Project No.               | Drawn by                                  | North |
|-------------------------------------------------------------------------------|----------------------------------------------|---------------------------|-------------------------------------------|-------|
| <b>Doran Drive</b><br>Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | 1:200 @A1, 50%@A3<br>Status<br>DA Submission | Dwg No. <b>DA-110-002</b> | <u>AM, VT, JL, JE</u><br>Rev<br><b>02</b> | ア     |
| Drawing Title                                                                 |                                              |                           |                                           |       |
| GA PLANS                                                                      |                                              |                           |                                           |       |

Basement 06

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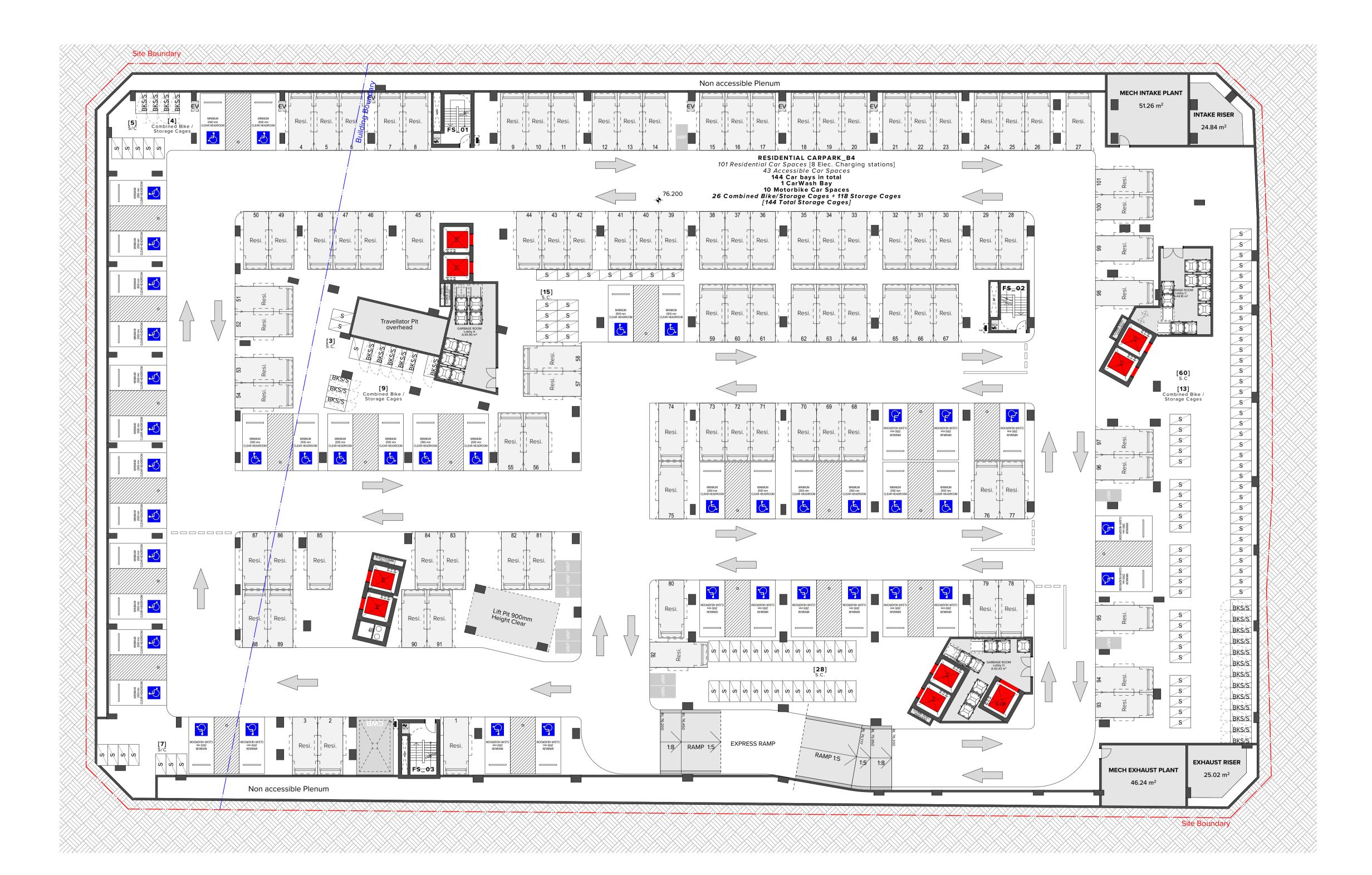
NOTES

| Project Title                                           | Scale             | Project No. | Drawn by       | North |
|---------------------------------------------------------|-------------------|-------------|----------------|-------|
| Doran Drive                                             | 1:200 @A1, 50%@A3 | 19068       | AM, VT, JL, JE | う     |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Status            | Dwg No.     | Rev            |       |
|                                                         | DA Submission     | DA-110-003  | 02             |       |
| Drawing Title                                           |                   |             |                |       |
| GA PLANS                                                |                   |             |                |       |

Basement 05

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NOTES

| Project Title                                           | Scale             | Project No. | Drawn by       | North |
|---------------------------------------------------------|-------------------|-------------|----------------|-------|
| Doran Drive                                             | 1:200 @A1, 50%@A3 | 19068       | AM, VT, JL, JE | く     |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Status            | Dwg No.     | Rev            |       |
|                                                         | DA Submission     | DA-110-004  | 02             |       |
| Drawing Title                                           |                   |             |                |       |
| GA PLANS                                                |                   |             |                |       |

Basement 04

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| Project Title<br><b>Doran Drive</b><br>Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Scale<br>1:200 @A1, 50%@A3<br>Status<br>DA Submission | Project No.<br>19068<br>Dwg No.<br>DA-110-005 | Drawn by<br><u>AM, VT, JL, JE</u><br>Rev<br><b>02</b> | North             |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-------------------|
| Drawing Title                                                                                  |                                                       |                                               |                                                       |                   |
| GA PLANS                                                                                       |                                                       |                                               | rd Street                                             | T +61 2 9669 0000 |

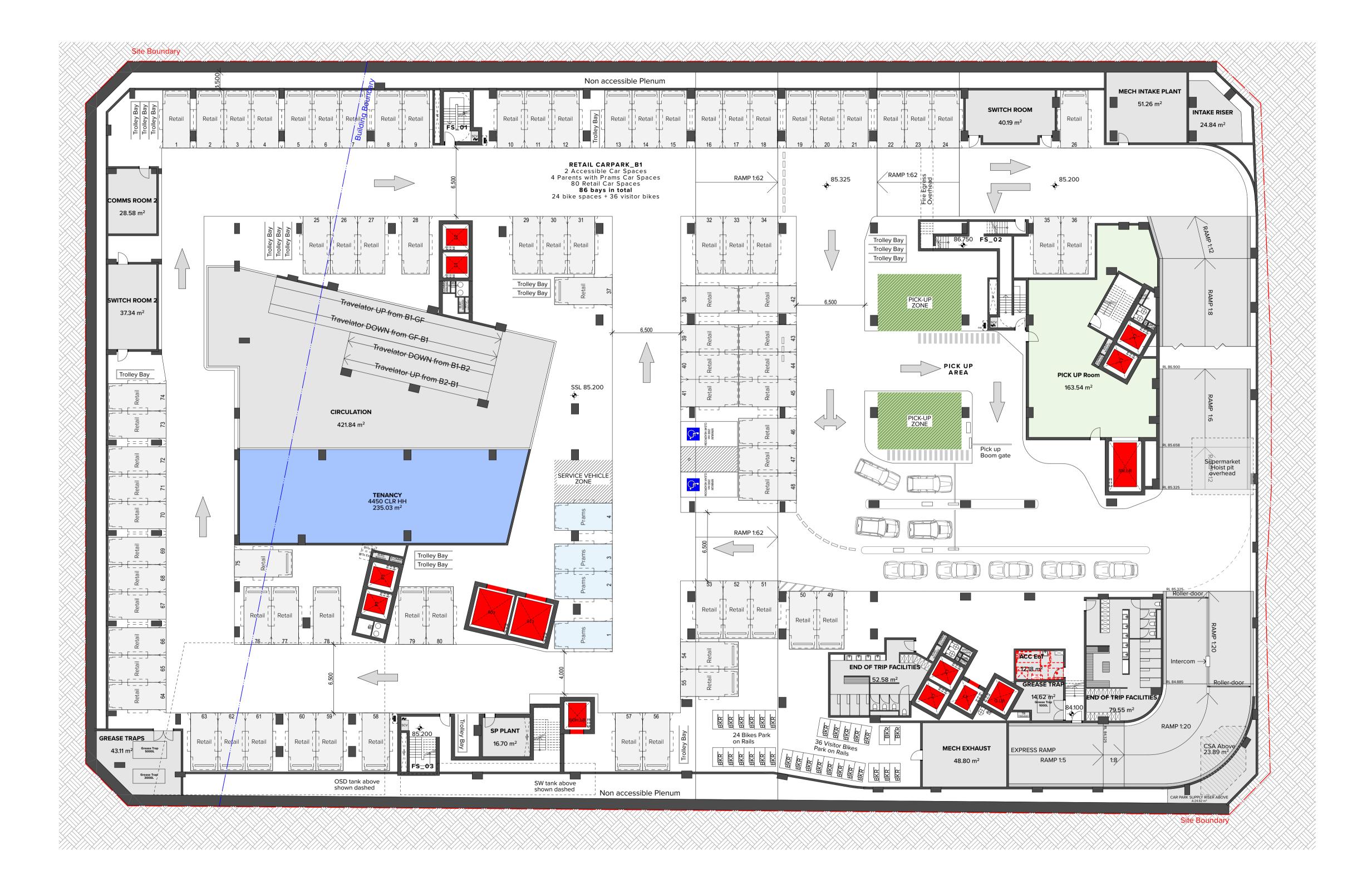


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NOTES

| Project Title Doran Drive Doran Drive, Castle Hill Castle Hill NSW 2154 Australia Drawing Title | Scale<br>1:200 @A1, 50%@A3<br>Status<br>DA Submission | Project No. | 19068<br>A-110-006                                        | Drawn by<br><u>AM, VT, JL, JE</u><br>Rev<br><b>02</b> | North                                                         |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|-----------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| GA PLANS<br>Basement 02                                                                         | TURNE                                                 | ER          | Level 7 <b>ONE</b> Oxfor<br>Darlinghurst NSW<br>AUSTRALIA |                                                       | T +61 2 8668 0000<br>F +61 2 8668 0088<br>turnerstudio.com.au |



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NOTES

| Project Title                                           | Scale                       | Project No. | Drawn by                               | North |
|---------------------------------------------------------|-----------------------------|-------------|----------------------------------------|-------|
| Doran Drive                                             | 1:200 @A1, 50%@A3<br>Status | <b>190</b>  | <b>68</b> <u>AM, VT, JL, JE</u><br>Rev | く     |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | DA Submission               | DA-110      |                                        | /     |
| Drawing Title                                           |                             |             |                                        |       |
|                                                         |                             |             |                                        |       |

GA PLANS Basement 01

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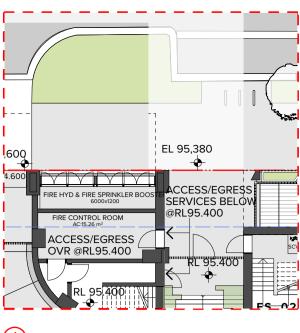
Approved by Revision Notes JMC Draft DA for Review JMC Retail Update JMC DA Submission Rev Date 01 07.06.21 02 25.06.21 03 06.07.21

| Project Title Doran Drive Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Scale<br>1:200 @A1, 50%@A3<br>Status<br>DA Submission | Project No. | <u>19068</u><br>DA-110-008                                  | Drawn by<br><u>AM, VT, JL, JE</u><br>Rev<br><b>03</b> | North                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|-------------|-------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| Drawing Title<br>GA PLANS<br>Ground Level                                         | TURNE                                                 | ER          | Level 7 <b>ONE</b> Oxfor<br>Darlinghurst NSW 2<br>AUSTRALIA |                                                       | T +61 2 8668 0000<br>F +61 2 8668 0088<br>turnerstudio.com.au |



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-----



1 Access/Egress Fire Control Room

Scale 1:200 @A1, 50%@A3 Doran Drive Doran Drive, Castle Hill Castle Hill NSW 2154 Australia Status **DA Submission** Drawing Title

Dwg No.

Project No. Drawn by 19068 DA-110-009

North AM, VT, JL, JE Rev 03

GA PLANS Upper Level

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Level 7 **ONE** Oxford Street Darlinghurst NSW 2010 AUSTRALIA



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Project Title Scale Project No. Drawn by North 19068 1:200 @A1, 50%@A3 AM, VT, JL, JE Rev Doran Drive Dwg No. Doran Drive, Castle Hill Castle Hill NSW 2154 Australia Status DA-110-010 03 DA Submission Drawing Title GA PLANS Level 7 **ONE** Oxford Street Darlinghurst NSW 2010 AUSTRALIA T +61 2 8668 0000 F +61 2 8668 0088 turnerstudio.com.au TURNER Level 01



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NOTES

Rev Date 01 07.06.21 02 18.06.21 03 25.06.21 04 06.07.21

| Project Title                                           | Scale                   | Project No.               | Drawn by       | North |
|---------------------------------------------------------|-------------------------|---------------------------|----------------|-------|
| Doran Drive                                             | 1:200 @A1, 50%@A3       | 19068                     | AM, VT, JL, JE | う     |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Status<br>DA Submission | Dwg No. <b>DA-110-020</b> | Rev 04         | /•    |
| Drawing Title                                           |                         |                           |                |       |
| GA PLANS                                                |                         |                           |                |       |

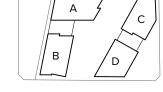
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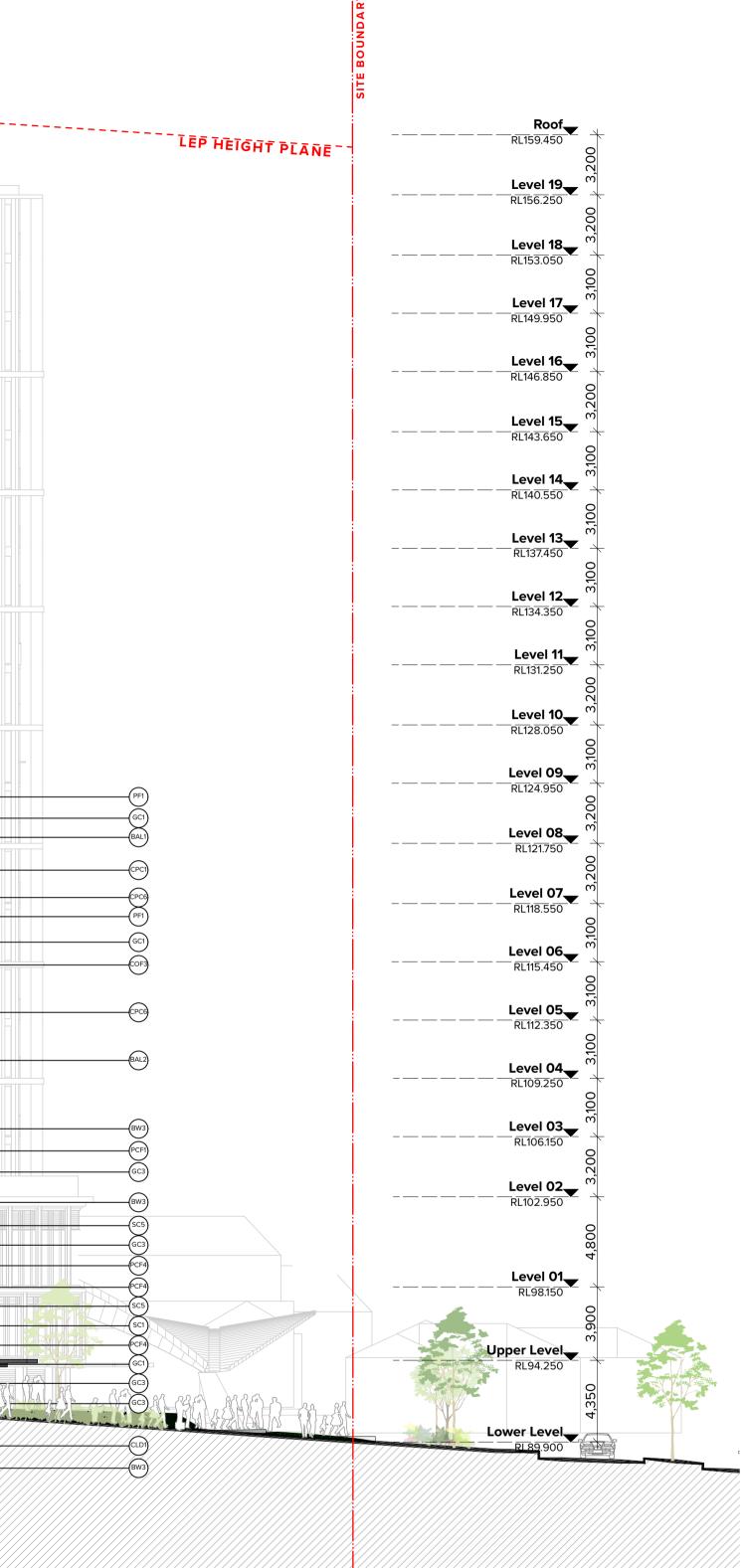
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NOTES



| BALI CPC3 (PFI) (GCI)                                          | GC8 GC1 COFI SC2 CPC6 COF3 BAL1 CPC1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                | COVERRUN RL 16 .300                  | OP RL 159.950*         Image: state sta |
|                                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CAR PARK IN<br>CAR PARK OUT 560<br>57<br>0<br>0<br>0<br>0<br>0 |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Il steel screen, Detailing,<br>al and finish to match BAL2 | GC1 Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF1                                                  | (GC7) System, alu<br>Framing co | k glass panel Framing<br>minium, Powder coat finish,<br>lour to match PCF1, Colour<br>to match PF1 | (PF3)      | Paint finish White Colour to match<br>Dulux "Dulux Natural White" or<br>Similar | Mall/Car park directional :           |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------|---------------------------------------|
| ntal Aluminium Louver<br>,<br>o match PCF1                 | GC2 Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF2                                                  | (GC8) System, alu               | Louvers, Framing<br>minium, Powder coat<br>ing colour to match                                     | (SG1)      | External Sign - The corner of Doran Drive and Mandala Parade                    | Car park Entry/Exit Signa             |
| ntal Aluminium Louver<br>,<br>o match PCF2                 | GC3<br>GG3<br>GG3<br>GG3<br>GG3<br>GG3<br>GG3<br>GG3<br>GG3<br>GG3                                                                                  |                                 | Curtain Wall System                                                                                | (SG2)      | External Sign - The corner of<br>Doran Drive and De Clambe Drive (SG7)          | External Sign - Online Pic<br>Signage |
| l Aluminium Batten screen,<br>o match PCF2                 | GC4<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF2, Colour<br>back panel to match PF1<br>Colour-back glass panel Framing |                                 | Dark grey Colour to                                                                                | (SG3)      | External Sign - The corner of<br>Andalusian Way and De Clambe                   | oightige                              |
| ntal Aluminium Louver<br>o match PCF4                      | GC5<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour<br>back panel to match PF2<br>Colour-back glass panel Framing |                                 | x "Domino" or Similar<br>: Colour to match                                                         | $\bigcirc$ | Drive                                                                           |                                       |
|                                                            | GC6<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour<br>back panel to match PF3                                    |                                 | nity Gold Pearl" or                                                                                |            |                                                                                 |                                       |



| Project Title                                                                 | Scale                                        | Project No.                      | Drawn by                              |
|-------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|---------------------------------------|
| <b>Doran Drive</b><br>Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | 1:200 @A1, 50%@A3<br>Status<br>DA Submission | Dwg No.<br>Dwg No.<br>DA-210-101 | <u>AG, VT, JB</u><br>Rev<br><b>03</b> |
| Drawing Title                                                                 | DA Subinission                               | DR-210-101                       |                                       |
| GA ELEVATIONS                                                                 |                                              |                                  |                                       |

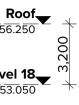
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А / D \_

| screen, Detailing,<br>inish to match BAL2 | GC1        | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF1                                               | GC7        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour<br>back panel to match PF1 | (PF3)      | Paint finish White Colour to match<br>Dulux "Dulux Natural White" or<br>Similar | SG5        | Mall/Car park directional :           |
|-------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------|------------|---------------------------------------|
| uminium Louver                            | GC2        | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF2                                               | GC8)       | Glass clear Louvers, Framing<br>System, aluminium, Powder coat<br>finish, Framing colour to match                                            | (SG1)      | External Sign - The corner of<br>Doran Drive and Mandala Parade                 | (SG6)      | Car park Entry/Exit Signaç            |
| h PCF1<br>uminium Louver                  | GC3        | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF4                                               | $\bigcirc$ | PCF1                                                                                                                                         | $\bigcirc$ |                                                                                 | $\bigcirc$ |                                       |
| h PCF2                                    | GC4        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,                                                                    | (GC9)      | Glass clear Curtain Wall System                                                                                                              | (SG2)      | External Sign - The corner of<br>Doran Drive and De Clambe Drive                | (SG7)      | External Sign - Online Pic<br>Signage |
| inium Batten screen,<br>h PCF2            | $\bigcirc$ | Framing colour to match PCF2, Colour<br>back panel to match PF1                                                                              |            |                                                                                                                                              |            | External Sign - The corner of                                                   |            |                                       |
| uminium Louver                            | GC5        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour                            | (PF1)      | Paint finish Dark grey Colour to<br>match Dulux "Domino" or Similar                                                                          | (SG3)      | Andalusian Way and De Clambe<br>Drive                                           |            |                                       |
| h PCF4                                    | GC6        | back panel to match PF2<br>Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour | (PF2)      | Paint Finish: Colour to match<br>Dulux "Eternity Gold Pearl" or<br>Similar                                                                   |            |                                                                                 |            |                                       |



| Project little                                          | Scale                |
|---------------------------------------------------------|----------------------|
| Doran Drive                                             | <u>1:200 @</u> A1,   |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Status<br>DA Submiss |
| Drawing Title                                           |                      |

TURNER

DA-210-201

Rev 03

**GA ELEVATIONS** West Elevation

Level 7 **ONE** Oxford Street Darlinghurst NSW 2010 AUSTRALIA



NOTES

| een, Detailing,<br>sh to match BAL2 | GC1 | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF1                                               | GC7        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour<br>back panel to match PF1 | (PF3)      | Paint finish White Colour to match<br>Dulux "Dulux Natural White" or<br>Similar | SG5        | Mall/Car park directional :           |
|-------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------|------------|---------------------------------------|
| nium Louver                         | GC2 | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF2                                               | GC8        | Glass clear Louvers, Framing<br>System, aluminium, Powder coat<br>finish, Framing colour to match                                            | (SG1)      | External Sign - The corner of<br>Doran Drive and Mandala Parade                 | SG6        | Car park Entry/Exit Signaç            |
| CF1<br>nium Louver                  | GC3 | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF4                                               | $\bigcirc$ | PCF1<br>Glass clear Curtain Wall System                                                                                                      | $\bigcirc$ | External Sign - The corner of                                                   | $\bigcirc$ |                                       |
| CF2<br>m Batten screen,<br>CF2      | GC4 | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF2, Colour<br>back panel to match PF1 | (GC9)      |                                                                                                                                              | (SG2)      | Doran Drive and De Clambe Drive                                                 | SG7        | External Sign - Online Pic<br>Signage |
| nium Louver                         | GC5 | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour<br>back panel to match PF2 | (PF1)      | Paint finish Dark grey Colour to match Dulux "Domino" or Similar                                                                             | (SG3)      | External Sign - The corner of<br>Andalusian Way and De Clambe<br>Drive          |            |                                       |
| CF4                                 | GC6 | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,                                                                    | (PF2)      | Paint Finish: Colour to match<br>Dulux "Eternity Gold Pearl" or                                                                              |            |                                                                                 |            |                                       |

| Project Itie                                            | Scale             | Proje |
|---------------------------------------------------------|-------------------|-------|
| Doran Drive                                             | 1:200 @A1, 50%@A3 |       |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Status            | Dwg I |
|                                                         | DA Submission     |       |
| Drawing Title                                           |                   |       |
|                                                         |                   |       |

DA-210-301

03

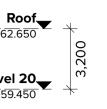
TURNER

Level 7 **ONE** Oxford Street Darlinghurst NSW 2010 AUSTRALIA



/ D \_

| een, Detailing,<br>h to match BAL2 | GC1        | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF1                    | GC7        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour<br>back panel to match PF1 | (PF3)      | Paint finish White Colour to match<br>Dulux "Dulux Natural White" or<br>Similar | Mall/Car park directional :           |
|------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------|---------------------------------------|
| nium Louver                        | GC2        | Glass clear, Framing System,<br>aluminium, Powder coat finish,<br>Framing colour to match PCF2                    | GC8        | Glass clear Louvers, Framing<br>System, aluminium, Powder coat<br>finish, Framing colour to match                                            | (SG1)      | External Sign - The corner of Doran Drive and Mandala Parade (SG6)              | Car park Entry/Exit Signaç            |
| CF1                                | GC3        | Glass clear, Framing System,<br>aluminium. Powder coat finish.                                                    | $\bigcirc$ | PCF1                                                                                                                                         | $\bigcirc$ | $\bigcirc$                                                                      |                                       |
| nium Louver                        | $\bigcirc$ | Framing colour to match PCF4                                                                                      |            | Glass clear Curtain Wall System                                                                                                              | (SG2)      | External Sign - The corner of                                                   |                                       |
| CF2                                | GC4        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,                                         | (GC9)      |                                                                                                                                              | (SG2)      | Doran Drive and De Clambe Drive                                                 | External Sign - Online Pic<br>Signage |
| n Batten screen,<br>CF2            | $\bigcirc$ | Framing colour to match PCF2, Colour<br>back panel to match PF1                                                   | $\frown$   |                                                                                                                                              | $\bigcirc$ |                                                                                 |                                       |
|                                    | GC5        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,                                         | (PF1)      | Paint finish Dark grey Colour to<br>match Dulux "Domino" or Similar                                                                          | (SG3)      | External Sign - The corner of<br>Andalusian Way and De Clambe<br>Drive          |                                       |
| nium Louver                        | $\bigcirc$ | Framing colour to match PCF1, Colour<br>back panel to match PF2                                                   | $\bigcirc$ |                                                                                                                                              |            |                                                                                 |                                       |
| CF4                                | GC6        | Colour-back glass panel Framing<br>System, aluminium, Powder coat finish,<br>Framing colour to match PCF1, Colour | (PF2)      | Paint Finish: Colour to match<br>Dulux "Eternity Gold Pearl" or<br>Similar                                                                   |            |                                                                                 |                                       |



| Project little                                          | Scale             |
|---------------------------------------------------------|-------------------|
| Doran Drive                                             | 1:200 @A1, 50%@A3 |
| Doran Drive, Castle Hill Castle Hill NSW 2154 Australia | Status            |
|                                                         | DA Submission     |
| Drawing Title                                           |                   |
|                                                         |                   |

Dwg No. DA-210-401

Rev 03

**GA ELEVATIONS** East Elevation

TURNER

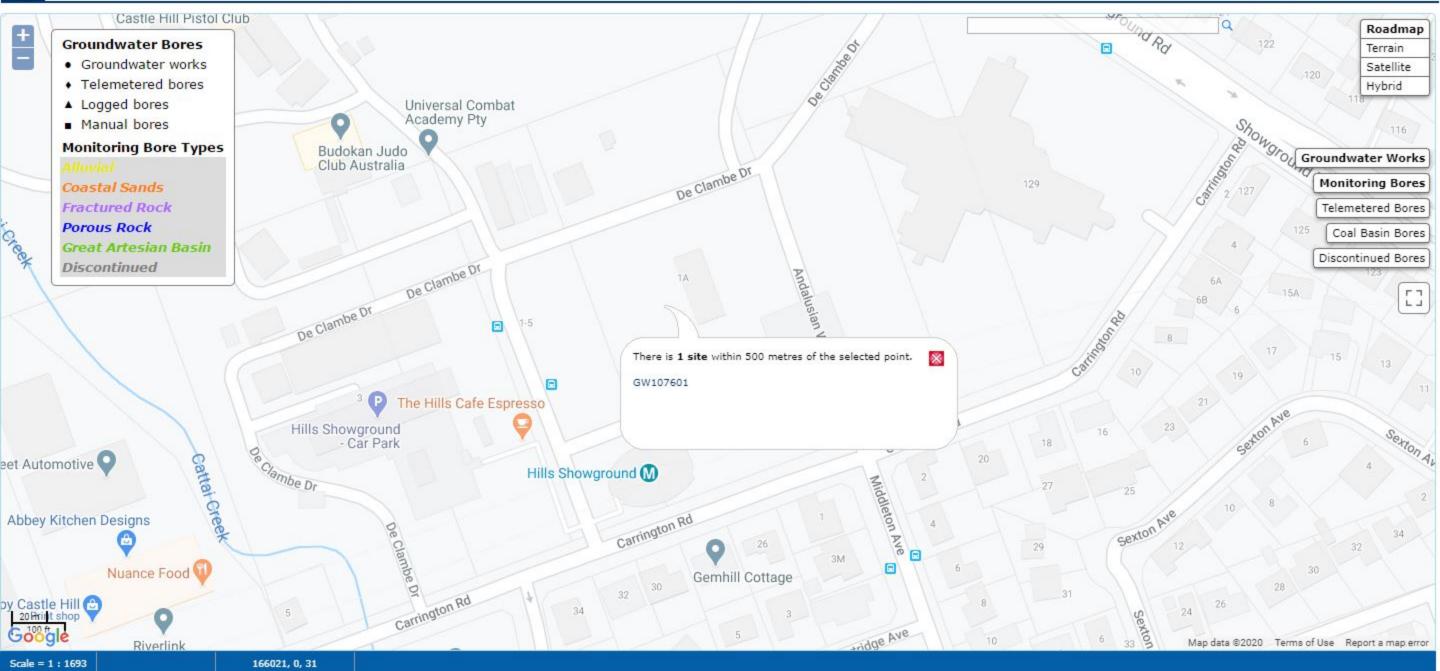
Level 7 **ONE** Oxford Street Darlinghurst NSW 2010 AUSTRALIA

Appendix D - Groundwater Bore Search

## GREATER SYDNEY REGION

All data times are Eastern Standard Time

### Мар



## WaterNSW Work Summary

### GW107601

| Licence:                            | 10BL160929                  | Licence Status:                                | ACTIVE                             |
|-------------------------------------|-----------------------------|------------------------------------------------|------------------------------------|
|                                     |                             | Authorised Purpose(s):<br>Intended Purpose(s): | MONITORING BORE<br>MONITORING BORE |
| Work Type:                          | Bore                        |                                                |                                    |
| Work Status:                        |                             |                                                |                                    |
| Construct.Method:                   |                             |                                                |                                    |
| Owner Type:                         |                             |                                                |                                    |
| Commenced Date:<br>Completion Date: | 24/10/2002                  | Final Depth:<br>Drilled Depth:                 |                                    |
| Contractor Name:                    | JEFFERY & KATAUSKAS PTY LTD |                                                |                                    |
| Driller:                            | Yoon Fook Chin              |                                                |                                    |
| Assistant Driller:                  |                             |                                                |                                    |
| Property:                           | CASTLE HILL SHOWGROUND      | Standing Water Level<br>(m):                   |                                    |
| GWMA:                               | -                           | Salinity Description:                          |                                    |
| GWMA.<br>GW Zone:                   |                             | Yield (L/s):                                   |                                    |

#### Site Chosen By:

|                                 |                            |            | County<br>CUMBERLAND<br>CUMBERLAND | <b>Parish</b><br>CASTLE HI<br>CASTLE HILL | <b>Cadastre</b><br>199 752020<br>PART LOT<br>199//752020 |
|---------------------------------|----------------------------|------------|------------------------------------|-------------------------------------------|----------------------------------------------------------|
| Region:                         | 10 - Sydney South Coast    | CMA Map:   |                                    |                                           |                                                          |
| River Basin:<br>Area/District:  | - Unknown                  | Grid Zone: |                                    | Scale                                     | :                                                        |
| Elevation:<br>Elevation Source: | 0.00 m (A.H.D.)<br>Unknown |            | 6266332.000<br>313192.000          |                                           | : 33°43'35.8"S<br>: 150°59'01.4"E                        |
| GS Map:                         | -                          | MGA Zone:  | 56                                 | Coordinate Source                         | Unknown                                                  |

### 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 | Туре               |      | To<br>(m) | Diameter | <br>Interval | Details                 |
|------|------|-----------|--------------------|------|-----------|----------|--------------|-------------------------|
| 1    |      | Hole      | Hole               | 0.00 | 35.34     | 70       |              | Unknown                 |
| 1    | 1    | Casing    | P.V.C.             | 0.00 | 35.34     | 50       |              | Seated on Bottom, Glued |
| 1    | 1    | Opening   | Slots - Horizontal | 0.00 | 35.34     | 50       | 0            | PVC, SL: 0.5mm          |

### **Drillers Log**

| From<br>(m) |       | Thickness<br>(m) | Drillers Description | Geological Material | Comments |
|-------------|-------|------------------|----------------------|---------------------|----------|
| 0.00        | 1.20  | 1.20             | TOPSOIL              | Topsoil             |          |
| 1.20        | 35.34 | 34.14            | SANDSTONE            | Sandstone           |          |

### \*\*\* End of GW107601 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW 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.

# Appendix E - Site Photography





Photograph 1: View of the eastern portion of the site.



Photograph 2: South-western corner of the site.





Photograph 3: Western boundary of the site.



Photograph 4: Southern boundary of the site.





Photograph 5: Northern boundary of the site.



Photograph 6: Doran Drive (west) and Mandala Parade (south).



# Appendix F - Test Pit and Borehole Logs





## BOREHOLE: BH1

ProjectDetailed SLocation2 MandalPositionRefer to FJob No.E24724.EClientDeicorp F

Detailed Site Investigation 2 Mandala Parade, Castle Hill NSW Refer to Figure 2 E24724.E02 Deicorp Pty Ltd

Surface RL 96.50 m Contractor Hagstrom Drill Rig Hydrapower Scout V (DR011) Inclination -90° 
 Sheet
 1
 OF
 1

 Date Started
 8/7/20
 1

 Date Complete
 9/7/20
 1

 Logged
 DS
 Date:8/7/20

 Checked SR
 Date: 24/8/20

| F                                                                                        |             | Dr    | illing            |                      | Sampling                |           |                |             | Field Material Desc                                                                                                                                                      | riptio                                               | n                      |                                             |         |
|------------------------------------------------------------------------------------------|-------------|-------|-------------------|----------------------|-------------------------|-----------|----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------|---------------------------------------------|---------|
| METHOD                                                                                   | PENETRATION | WATER | DEPTH<br>(metres) | DEPTH<br>RL          | SAMPLE OR<br>FIELD TEST | RECOVERED | GRAPHIC<br>LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION                                                                                                                                           | MOISTURE                                             | CONSISTENCY<br>DENSITY | STRUCTURE AND<br>ADDITIONAL<br>OBSERVATIONS |         |
|                                                                                          |             |       | -0                | 96.50<br>0.60        | BH1_0.1-0.2 ES          |           | $\bigotimes$   | -           | FILL: Silty CLAY; low plasticity, pale grey to red-brown, with<br>fine to coarse sandstone, igneous gravel and fine to medium<br>grained sand, no odour.                 | М                                                    | -                      | FILL                                        | T       |
|                                                                                          | -           |       | 1-                | 95.90                | BH1_0.7-0.8 ES          |           |                | CI          | Silty CLAY; medium plasticity, pale grey, with fine to coarse<br>ironstone gravel and fine to medium grained sand, grading to<br>extremely weathered material, no odour. |                                                      |                        | RESIDUAL SOIL                               | -       |
| AD/T                                                                                     |             | GWNE  | -                 |                      | BH1_1.4-1.5 ES          |           | × · ·          |             |                                                                                                                                                                          | M<br>( <pl< td=""><td>н</td><td></td><td></td></pl<> | н                      |                                             |         |
|                                                                                          |             |       | 2-                | <u>2.10</u><br>94.40 |                         |           | × ×            | -           | SANDSTONE; fine to medium grained, pale grey and<br>orange-brown, low to medium strength, slightly to distinctly<br>weathered, no odour.                                 |                                                      |                        | BEDROCK                                     |         |
|                                                                                          | M-H         |       |                   | 3.00                 |                         |           |                |             | Borehole Terminated at 3.00 mBGL;                                                                                                                                        | -                                                    | -                      |                                             | .<br> - |
|                                                                                          |             |       | -                 | -                    |                         |           |                |             | Target Depth Reached.                                                                                                                                                    |                                                      |                        |                                             |         |
| A 1.03 2014-07-05                                                                        |             |       | 4-                |                      |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             | -       |
| 03 2014-07-05 Prj: El                                                                    |             |       |                   | -                    |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             | -       |
| I - DGD   LIb: EIA 1.0                                                                   |             |       | -                 | -                    |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             |         |
| 00 Datgel Laband in Silu Tool - DGD   Lib: E.A. 1.03 2014-07-05 Pr; E.A. 1.03 2014-07-05 |             |       | 6                 | -                    |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             | -       |
|                                                                                          |             |       |                   |                      |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             |         |
| ile>> 17/08/2020 14:33 10.0.0                                                            |             |       | -                 | -                    |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             |         |
| 3S.GPJ < <drawingfile>&gt;</drawingfile>                                                 |             |       | 8-                |                      |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             | -       |
| 4.E02 TEST PIT LOI                                                                       |             |       | -                 | •                    |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             |         |
| DREHOLE 3 E24724                                                                         |             |       | 9                 | -                    |                         |           |                |             |                                                                                                                                                                          |                                                      |                        |                                             | -       |
| EA UB 103.GLB Log IS AUBOREHOLE 3 E24724.E02 TEST PIT LOGS GPJ                           |             |       | -<br>-<br>10-     |                      | This horeho             |           |                |             | e read in conjunction with EI Australia's accompanying sta                                                                                                               | ndar                                                 |                        | 22                                          |         |
| EIA LIB 1.0                                                                              |             |       |                   |                      |                         |           | 3 51101        |             |                                                                                                                                                                          |                                                      |                        |                                             |         |



## **BOREHOLE: BH2**

Project Location Position Job No. E24724.E02 Client

Detailed Site Investigation 2 Mandala Parade, Castle Hill NSW Refer to Figure 2 Deicorp Pty Ltd

| Surface RL  | 95.10 m                    |
|-------------|----------------------------|
| Contractor  | Hagstrom                   |
| Drill Rig   | Hydrapower Scout V (DR011) |
| Inclination | -90°                       |

Sheet 1 OF 1 Date Started 9/7/20 Date Completed 10/7/20 Logged DS Date:9/7/20 Checked SR Date: 24/8/20

|        |                           | Dri   | lling             | _                             | Sampling                         |           |                                       |                    | Field Material Desc                                                                                                                                                     |                                                      |                        |                                             |
|--------|---------------------------|-------|-------------------|-------------------------------|----------------------------------|-----------|---------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------|---------------------------------------------|
| METHOD | PENETRATION<br>RESISTANCE | WATER | DEPTH<br>(metres) | DEPTH<br>RL                   | SAMPLE OR<br>FIELD TEST          | RECOVERED | GRAPHIC<br>LOG                        | <b>USCS SYMBOL</b> | SOIL/ROCK MATERIAL DESCRIPTION                                                                                                                                          | MOISTURE                                             | CONSISTENCY<br>DENSITY | STRUCTURE AND<br>ADDITIONAL<br>OBSERVATIONS |
|        |                           |       | 0                 | 95.10                         | BH2_0.1-0.2 ES                   |           | $\bigotimes$                          | -                  | FILL: Silty CLAY; low plasticity, dark brown, with fine to<br>coarse, sub-rounded to angular sandstone and igneous gravel<br>and fine to medium grained sand, no odour. |                                                      |                        | FILL                                        |
|        |                           |       | -<br>-<br>1—      | 1.00                          | BH2_0.7-0.8 ES                   |           | $\bigotimes$                          |                    |                                                                                                                                                                         | м                                                    | -                      |                                             |
|        |                           |       | -                 | 94.10<br><b>1.40</b><br>93.70 | BH2_1.2-1.3 ES                   |           |                                       | CI                 | From 1.0 m, with weak odour.<br>Silty CLAY: medium plasticity, pale grey to red-brown, trace<br>fine to medium ironstone gravels and rootlets, with weak                |                                                      |                        | RESIDUAL SOIL                               |
| Ľ      | -                         | GWNE  | -                 | 2.00                          | BH2_1.6-1.7 ES<br>BH2_1.9-2.0 ES |           |                                       |                    | fine to medium ironstone gravels and rootlets, with weak odour.                                                                                                         |                                                      |                        |                                             |
| AD/T   |                           | В     | 2                 | 93.10                         | BH2_1.9-2.0 L3                   |           |                                       |                    | From 2.0 m, no odour.                                                                                                                                                   | M<br>( <pl< td=""><td>VSt</td><td></td></pl<>        | VSt                    |                                             |
|        |                           |       | -                 | 3.00                          | BH2 2.9-3.0 ES                   |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 3—                | 92.10<br>3.30<br>91.80        |                                  |           |                                       | CL                 | Sandy CLAY; low plasticity, pale grey, grading to extremely<br>weathered sandstone, no odour.<br>SANDSTONE; fine to medium grained, pale grey and                       | M<br>( <pl< td=""><td>) н</td><td>BEDROCK</td></pl<> | ) н                    | BEDROCK                                     |
|        | M-H                       |       | -                 | 3.95                          |                                  |           | · · · · · · · · · · · · · · · · · · · |                    | orange-brown, low to medium strength, slightly to distinctly weathered, no odour.                                                                                       | -                                                    | -                      |                                             |
|        |                           |       | 4                 | 0.00                          |                                  |           | <u></u>                               |                    | Borehole Terminated at 3.95 mBGL;<br>Target Depth Reached.                                                                                                              |                                                      |                        |                                             |
|        |                           |       | =                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 5                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | -                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 6—                |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | -                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 7—                |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | -                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 8                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | -                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 9—                |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | -                 |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |
|        |                           |       | 10 —              |                               | This boreho                      | le log    | g shou                                | ıld be             | e read in conjunction with El Australia's accompanying sta                                                                                                              | <br>ndaro                                            | d note                 | <br>es.                                     |
|        |                           |       |                   |                               |                                  |           |                                       |                    |                                                                                                                                                                         |                                                      |                        |                                             |



## BOREHOLE: BH3M

ProjectDetailed Site InvestigationLocation2 Mandala Parade, Castle Hill NSWPositionRefer to Figure 2Job No.E24724.E02ClientDeicorp Pty Ltd

Surface RL 91.00 m Contractor Hagstrom Drill Rig Hydrapower Scout V (DR011) Inclination -90° 
 Sheet
 1 OF 1

 Date Started
 14/7/20

 Date Completed
 14/7/20

 Logged
 DS

 Date: 14/7/20
 14/7/20

|        |                                                                                                  |                  |                   |                       |                                    |           |                |             | Inclination -90°                                                                                                                                                                                                   |           |                        | Checked SR D                              | ate: 24/8/20 |
|--------|--------------------------------------------------------------------------------------------------|------------------|-------------------|-----------------------|------------------------------------|-----------|----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|-------------------------------------------|--------------|
|        |                                                                                                  |                  | lling             |                       | Sampling                           | _         |                |             | Field Material Desc                                                                                                                                                                                                | riptio    | on                     |                                           |              |
| METHOD | PENETRATION<br>RESISTANCE                                                                        | WATER            | DEPTH<br>(metres) | DEPTH<br>RL           | SAMPLE OR<br>FIELD TEST            | RECOVERED | GRAPHIC<br>LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION                                                                                                                                                                                     | CONDITION | CONSISTENCY<br>DENSITY | STRUCTURE AN<br>ADDITIONAL<br>OBSERVATION |              |
|        |                                                                                                  |                  | 0                 | 91.00                 | BH3M_0.1-0.2 ES                    |           |                |             | FILL: Silty CLAY; low plasticity, brown-dark grey to dark<br>brown, with fine to coarse grained sand, fine to coarse,<br>sub-rounded to angular sandstone and igneous gravel, trace<br>rubber fragments, no odour. |           |                        | FILL                                      |              |
|        |                                                                                                  |                  | -<br>-<br>1—      |                       | BH3M_0.7-0.8 ES                    |           |                | ><br>><br>> |                                                                                                                                                                                                                    |           |                        |                                           |              |
| AD/T   | -                                                                                                |                  | -                 |                       | BH3M_1.2-1.3 ES<br>BH3M_1.7-1.8 ES |           | $\bigotimes$   | ><br>><br>> |                                                                                                                                                                                                                    | M         | -                      |                                           |              |
|        |                                                                                                  | 14/7/20          | 2                 | -                     | BH3M_2.2-2.3 ES                    |           | $\bigotimes$   | >           |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  | $\nabla^{1_{4}}$ |                   | 2.60<br>88.40<br>2.90 | BH3M_2.8-2.9 ES                    |           |                | C           | Sandy CLAY; fine to medium grained, pale grey and orange-brown, grading to extremely weathered sandstone, no odour.                                                                                                | м         | VSt                    | RESIDUAL SOIL                             |              |
|        |                                                                                                  |                  | -                 |                       |                                    |           |                |             | Borehole Terminated at 2.90 mBGL;<br>T/C Bit Refusal on Sandstone.                                                                                                                                                 |           |                        |                                           |              |
|        |                                                                                                  |                  | 4                 |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -                 |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | 5 —<br>-          |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -<br>-<br>6—      |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -                 |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | 7                 |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -<br>-<br>8—      |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -                 |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -<br>9—           |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        |                                                                                                  |                  | -                 |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |
|        | This borehole log should be read in conjunction with El Australia's accompanying standard notes. |                  |                   |                       |                                    |           |                |             |                                                                                                                                                                                                                    |           |                        |                                           |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ei          | al | USI   | ation | alia        | al                            | 2 Ma      | Indala                        | Para        | estigation<br>le, Castle Hill NSW                                                                                                                                                                                  | В      | O     | REH             | Sheet                                                     | 1 OF 1                                                                     |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|-------|-------|-------------|-------------------------------|-----------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-----------------|-----------------------------------------------------------|----------------------------------------------------------------------------|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |    |       |       |             | Position<br>Job No.<br>Client | E247      | r to Fig<br>724.E0<br>orp Pty | 2           | Contractor Hagstrom<br>Drill Rig Hydrapower S                                                                                                                                                                      | cout ' | V (DF | R011)           | Date Started<br>Date Completed<br>Logged LW<br>Checked SR | 21/7/20<br>22/7/20<br>Date:21/7/20<br>Date: 24/8/2                         |    |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |    |       |       |             |                               |           |                               |             | Inclination -90°                                                                                                                                                                                                   |        |       |                 | Checked SK                                                | Dale. 24/0/2                                                               | .0 |
| METHOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PENETRATION | _  | DEPTH |       | DEPTH<br>RL | SAMPLE OR<br>FIELD TEST       | RECOVERED | GRAPHIC<br>LOG                | USCS SYMBOL | Field Material Des                                                                                                                                                                                                 |        |       | ID Si<br>BH3M-a |                                                           | ETAILS                                                                     |    |
| EA LIB 103 GLB Log IS AU BOREHOLE 3 E24724.E02 TEST PT LOGS.GPJ <-D0#WingFile> 2008/2020 16:42 10.0.000 DageLab and In Stu Tool - DGD   Lik: EIA 1.03 2014-07-05 Pf; EIA 1.03 20 |             |    |       |       | 2.40        |                               |           |                               |             | FILL: Silty CLAY; low plasticity, brown-dark grey to dark<br>brown, with fine to coarse grained sand, fine to coarse,<br>sub-rounded to angular sandstone and igneous gravel, trace<br>rubber fragments, no odour. |        | VSI   |                 |                                                           | Grout<br>Bentonite<br>uPVC 50 mm<br>Casing<br>Sand<br>uPVC 50 mm<br>Screen |    |
| EIA LIB 1.03.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |    |       |       |             | This bore                     | nole lo   | ig shoi                       | uid be      | read in conjunction with EI Australia's accompanying st                                                                                                                                                            | andar  | d not | es.             |                                                           |                                                                            |    |

Г



Project

Location

Position

Job No.

Client

### Detailed Site Investigation 2 Mandala Parade, Castle Hill NSW Refer to Figure 2 E24724.E02 Deicorp Pty Ltd

Surface RL98.00 mContractorGeosense DrillingDrill RigHanjin DB8Inclination-90°

BOREHOLE: BH4M

 Sheet
 1 OF 1

 Date Started
 14/7/20

 Date Completed
 14/7/20

 Logged SL
 Date:14/7/20

 Checked SR
 Date: 24/8/20

|        |                           | D-1   | lling             |                              | Compliant                                             |           |                |                    | Inclination -90°                                                                                                          | rim4! -  |                        |               | 20 |
|--------|---------------------------|-------|-------------------|------------------------------|-------------------------------------------------------|-----------|----------------|--------------------|---------------------------------------------------------------------------------------------------------------------------|----------|------------------------|---------------|----|
|        | z                         | Dri   | lling             |                              | Sampling                                              | 1         |                | ۲                  | Field Material Desc                                                                                                       |          |                        |               | —  |
| METHOD | PENETRATION<br>RESISTANCE | WATER | DEPTH<br>(metres) | DEPTH<br>RL                  | SAMPLE OR<br>FIELD TEST                               | RECOVERED | GRAPHIC<br>LOG | <b>USCS SYMBOL</b> | SOIL/ROCK MATERIAL DESCRIPTION                                                                                            | MOISTURE | CONSISTENCY<br>DENSITY |               |    |
|        |                           |       |                   | 98.00                        | BH4M_0.3-0.5 ES                                       |           |                | -                  | FILL: Silty SAND; fine to medium grained, brown, with low<br>plasticity clay and concrete fragments, no odour.            |          |                        | FILL          |    |
|        | L                         |       | 1—<br>-<br>-      | <u>1.10</u><br>96.90<br>1.60 | BH4M_0.9-1.0 ES<br>BH4M_1.4-1.5 ES                    |           |                | >                  | Fom 1.1 m, orange-brown, with medium sandstone gravel, no odour.                                                          | -        | -                      |               |    |
|        | Н                         |       | -<br>2—           | 96.40<br>2.00<br>96.00       | BH4M_1.9-2.0 ES                                       |           | $\bigotimes$   | -                  | From 1.6 m, grey, no odour.                                                                                               |          |                        |               |    |
| AD/T   |                           | GWNE  | -                 |                              | BH4M_2.4-2.5 ES                                       |           | $\bigotimes$   | >                  | with fine to medium, sub-angular to sub-rounded gravel, no odour.                                                         |          |                        |               |    |
|        | L                         |       | 3                 |                              | BH4M_2.9-3.0 ES                                       |           |                | *                  |                                                                                                                           | -        | -                      |               |    |
|        |                           |       | 4                 | <b>4.00</b><br>94.00         | BH4M_3.9-4.0 ES                                       |           |                | CI                 | Silty CLAY; medium plasticity, red mottled grey, no odour.                                                                | M        | VSt -                  | RESIDUAL SOIL | +  |
|        | М                         |       | -                 | <b>4.60</b><br>93.40<br>5.00 | BH4M_4.4-4.5 ES<br>BH4M_4.6-4.7 ES<br>BH4M_4.9-5.0 ES |           |                | С                  | Sandy CLAY; fine to medium grained, pale grey and<br>orange-brown, grading to extremely weathered sandstone, no<br>odour. | CAL      | ) H<br>VSt-<br>H       |               |    |
|        |                           |       | 5<br><br>6<br>_   |                              | DI 14W_4.9-0.0 ES                                     |           |                |                    | Borehole Terminated at 5.00 mBGL;<br>T/C Bit Refusal.                                                                     |          |                        |               |    |
|        |                           |       | -<br>7<br>-       |                              |                                                       |           |                |                    |                                                                                                                           |          |                        |               |    |
|        |                           |       | -<br>8<br>-<br>-  |                              |                                                       |           |                |                    |                                                                                                                           |          |                        |               |    |
|        |                           |       | -<br>9<br>-<br>-  |                              |                                                       |           |                |                    |                                                                                                                           |          |                        |               |    |
|        |                           |       | - 10              |                              | This boreho                                           | ole lo    | g shou         | uld be             | e read in conjunction with EI Australia's accompanying sta                                                                | ndaro    | d note                 | 25.           |    |

|            | (                         | R     |                   |                                      |                                                      |                      |                |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | В           | OF                 | REH                     | OLE: BI                                                            | H4M-a                                                         |
|------------|---------------------------|-------|-------------------|--------------------------------------|------------------------------------------------------|----------------------|----------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|-------------------------|--------------------------------------------------------------------|---------------------------------------------------------------|
| Cont       |                           |       |                   | alia                                 | Project<br>Location<br>Position<br>Job No.<br>Client | 2 Ma<br>Refe<br>E247 |                | Parac<br>jure 2<br>2 | estigation<br>de, Castle Hill NSW<br>2<br>Contractor Hagstrom<br>Drill Rig Hydrapower So<br>Inclination -90°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | cout \      | / (DR              | 8011)                   | Sheet<br>Date Started<br>Date Completed<br>Logged LW<br>Checked SR | 1 OF 1<br>21/7/20<br>22/7/20<br>Date:21/7/20<br>Date: 24/8/20 |
|            |                           | Dril  | ling              |                                      | Sampling                                             |                      |                |                      | Field Material Desc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                    |                         |                                                                    |                                                               |
| METHOD     | PENETRATION<br>RESISTANCE | WATER | DEPTH<br>(metres) | DEPTH<br>RL                          | SAMPLE OR<br>FIELD TEST                              | RECOVERED            | GRAPHIC<br>LOG | USCS SYMBOL          | SOIL/ROCK MATERIAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MOISTURE    | CONSISTENCY        | <u>ID Sta</u><br>BH4M-a |                                                                    | TAILS                                                         |
|            | L                         | GWNE  |                   | 1.10<br>1.60<br>2.00<br>4.00<br>4.40 | This boref                                           |                      |                | CI                   | FILL: Silty SAND; fine to medium grained, brown, with low plasticity clay and concrete fragments, no odour.         Fom 1.1 m, orange-brown, with medium sandstone gravel, no odour.         Frem 1.6 m, grey, no odour.         FILL: Silty CLAY; medium plasticity, red mottled grey-brown, with fine to medium, sub-angular to sub-rounded gravel, no odour.         Silty CLAY; medium plasticity, red mottled grey, no odour.         Silty CLAY; fine to medium grained, pale grey and orange-brown, grading to extremely weathered sandstone, no odour.         Borehole Terminated at 4.50 mBGL;         T/C Bit Refusal. | -<br>-<br>- | -<br>Vst<br>)<br>H |                         |                                                                    | Grout                                                         |
| B 1.03.GLB |                           |       | 10-               | <b>.</b>                             | This bore                                            | hole lo              | g shou         | uld be               | e read in conjunction with EI Australia's accompanying sta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ndar        | d not              | es.                     |                                                                    |                                                               |

| 3                                                                                                                                                                                                         | ei          | al    | Listr<br>Remediation | Geotechnia       | Project<br>Location                | 2 Ma      | ndala I                      | Parac       | estigation<br>le, Castle Hill NSW                                                                                     |                          | B           | Sheet 1 OF 1                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|----------------------|------------------|------------------------------------|-----------|------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                           |             |       |                      |                  | Position<br>Job No.<br>Client      | E247      | r to Fig<br>24.E0<br>orp Pty | 2           | 2 Surface RL 94.10 m<br>Contractor Geosense Drill<br>Drill Rig Hanjin DB8<br>Inclination -90°                         | ing                      |             | Date Started     16/7/20       Date Completed     16/7/20       Logged     SL     Date:16/7/20       Checked SR     Date: 24/8/20 |
|                                                                                                                                                                                                           |             | _     | rilling              |                  | Sampling                           |           |                              |             | Field Material Desc                                                                                                   |                          |             | PIEZOMETER DETAILS                                                                                                                |
| METHOD                                                                                                                                                                                                    | PENETRATION | WATER |                      | DEPTH<br>RL      | SAMPLE OR<br>FIELD TEST            | RECOVERED | GRAPHIC<br>LOG               | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION                                                                                        | CONDITION                | CONSISTENCY | PIEZOMETER DETAILS<br>ID Static Water Level<br>BH5M                                                                               |
|                                                                                                                                                                                                           |             |       | 0-                   | 94.10            | BH5M_0.1-0.2 ES                    |           | $\bigotimes$                 | -           | FILL: Gravelly SAND; fine to medium grained, brown, fine to<br>medium, sub-angular to sub-rounded garvels, with clay, |                          |             |                                                                                                                                   |
| AD/T                                                                                                                                                                                                      | L           | GWNF  | 1-                   | -                | BH5M_0.5-0.6 ES<br>BH5M_1.0-1.1 ES |           |                              |             | plastic fragmentš, no odour.                                                                                          | -                        | -           |                                                                                                                                   |
|                                                                                                                                                                                                           |             |       | -                    | 1.80             | BH5M_1.5-1.6 ES<br>BH5M_1.8-1.9 ES |           |                              | CI          | Silty CLAY; medium plasticity, red-brown, no odour.                                                                   | M                        | 1/64        | <ul> <li>Bentonite</li> <li>-</li> <li>-</li> </ul>                                                                               |
|                                                                                                                                                                                                           | +           | +     | 2_                   | 92.330<br>92.920 | BH5M_1.9-2.0 ES                    |           | <u></u>                      |             | From 1.9 m, grey, grading to extremely weathered sandstone, no odour.                                                 | <u> <pl< u=""></pl<></u> | VSt         |                                                                                                                                   |
|                                                                                                                                                                                                           |             |       |                      | -                |                                    |           |                              |             | Borehole Terminated at 2.00 mBGL;<br>T/C Bit Refusal.                                                                 |                          |             | uPVC 50 mm<br>Casing                                                                                                              |
|                                                                                                                                                                                                           |             |       | 3-                   | -                |                                    |           |                              |             |                                                                                                                       |                          |             |                                                                                                                                   |
| j: EIA 1.03 2014-07-05                                                                                                                                                                                    |             |       | 4 —                  | -                |                                    |           |                              |             |                                                                                                                       |                          |             | uPVC 50 mm<br>Screen<br>Screen                                                                                                    |
| ib: EIA 1.03 2014-07-05 P                                                                                                                                                                                 |             |       | 5—                   | -                |                                    |           |                              |             |                                                                                                                       |                          |             |                                                                                                                                   |
| and In Situ Tool - DGD   L                                                                                                                                                                                |             |       | 6-                   | -                |                                    |           |                              |             |                                                                                                                       |                          |             |                                                                                                                                   |
| :42 10.0.000 Datgel Lab                                                                                                                                                                                   |             |       | 7                    | -                |                                    |           |                              |             |                                                                                                                       |                          |             | -                                                                                                                                 |
| wingFile>> 20/08/2020 16                                                                                                                                                                                  |             |       | 7-                   | -                |                                    |           |                              |             |                                                                                                                       |                          |             |                                                                                                                                   |
| ST PIT LOGS.GPJ < <drail< td=""><td></td><td></td><td>8-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></drail<>                                                  |             |       | 8-                   | -                |                                    |           |                              |             |                                                                                                                       |                          |             |                                                                                                                                   |
| HOLE 3 E24724.E02 TES                                                                                                                                                                                     |             |       | 9 —                  | -                |                                    |           |                              |             |                                                                                                                       |                          |             | -                                                                                                                                 |
| EA UB103.0.B Log IS AUBOREHOLE 3 E24724.E02 TEST PIT LOGS GPJ < <drawingfile> 2008.2020 16.4.2 10.0.000 Daigei Lab and In Stu Tool - DGD   Lib: EIA 1.03 2014-07-05 Pf; EIA 1.03 2014-07-05</drawingfile> |             |       | 10-                  | -                | This bore                          | hole lo   | g shou                       | ıld be      | e read in conjunction with EI Australia's accompanying sta                                                            | ndar                     | d note      | es.                                                                                                                               |
| EIA LIB 1                                                                                                                                                                                                 |             |       |                      |                  |                                    |           |                              |             |                                                                                                                       |                          |             |                                                                                                                                   |



## **BOREHOLE: BH6**

Project Detailed Site Investigation Location 2 Mandala Parade, Castle Hill NSW Position Refer to Figure 2 Job No. E24724.E02 Deicorp Pty Ltd

Client

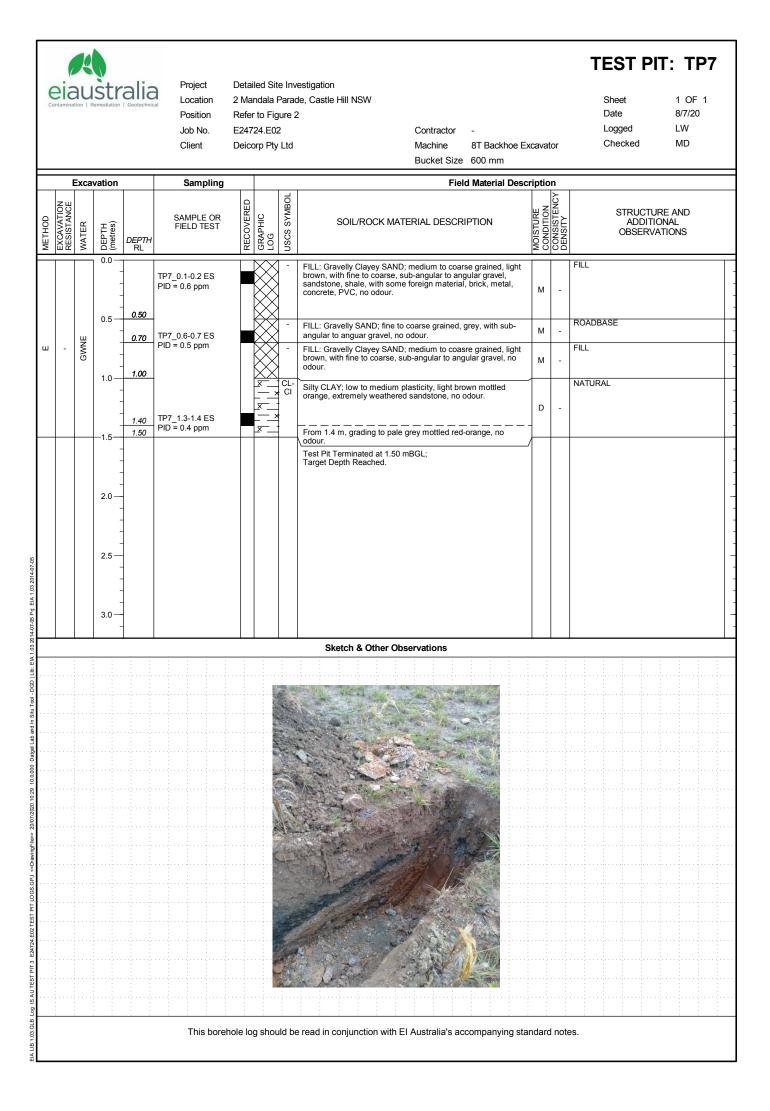
Surface RL 90.80 m Contractor Geosense Drilling Drill Rig Hanjin DB8 Inclination -90°

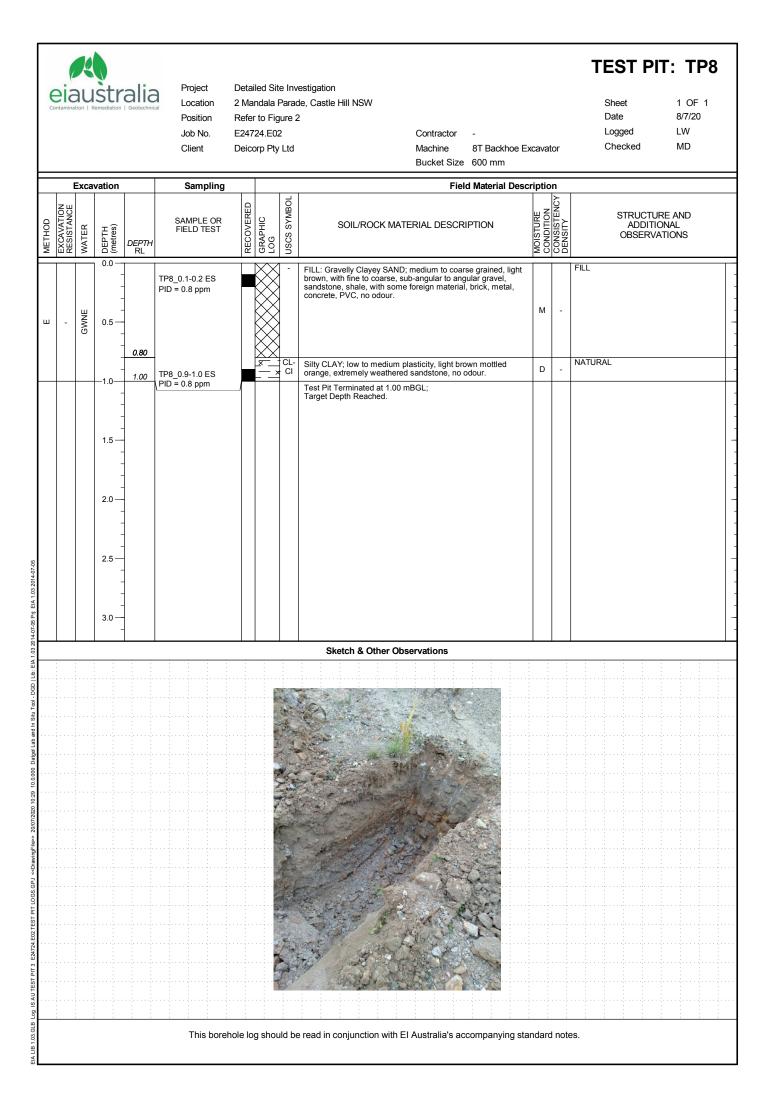
Sheet 1 OF 1 Date Started 20/7/20 Date Completed 20/7/20 Logged SL Date:20/7/20 Checked SR Date: 24/8/20

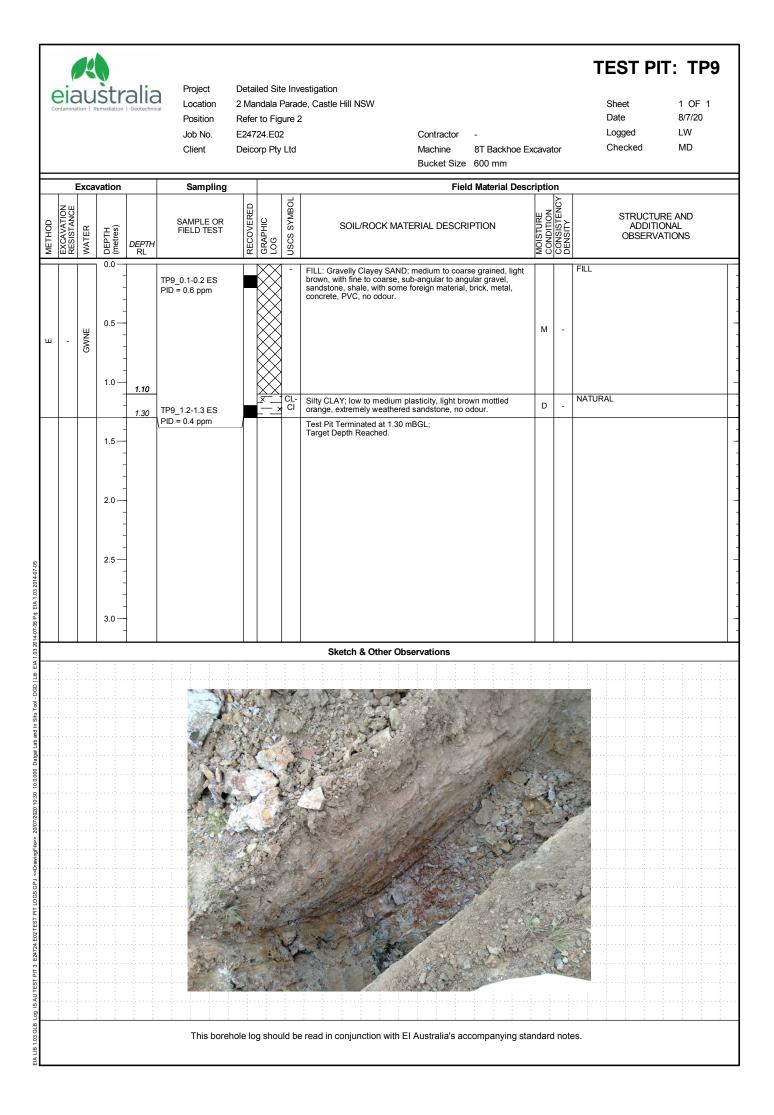
| ŀ                                                                                                                                                |        |                           | Dril | ling              |               | Sampling                |           |                |             | Field Material Descr                                                                                                        | iptio      | n                      |                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|------|-------------------|---------------|-------------------------|-----------|----------------|-------------|-----------------------------------------------------------------------------------------------------------------------------|------------|------------------------|---------------------------------------------|
|                                                                                                                                                  | METHOD | PENETRATION<br>RESISTANCE |      | DEPTH<br>(metres) | DEPTH<br>RL   | SAMPLE OR<br>FIELD TEST | RECOVERED | GRAPHIC<br>LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION                                                                                              | MOISTURE   | CONSISTENCY<br>DENSITY | STRUCTURE AND<br>ADDITIONAL<br>OBSERVATIONS |
| F                                                                                                                                                |        |                           |      | 0 —               | 90.80         | BH6_0.1-0.2 ES          |           | $\bigotimes$   | -           | FILL: Silty CLAY; low plasticity, pale grey mottled red-brown, with fine to medium gravels and fine to medium grained sand, |            |                        | FILL                                        |
|                                                                                                                                                  |        |                           |      | -                 |               | –<br>BH6_0.4-0.5 ES     |           | $\bigotimes$   |             | no odour.                                                                                                                   |            |                        | -                                           |
|                                                                                                                                                  | AD/T   | -                         | GWNE | -                 |               |                         |           | $\bigotimes$   |             |                                                                                                                             | -          | -                      | -                                           |
|                                                                                                                                                  | ∢      |                           | Ō    | 1 —               |               | BH6_0.9-1.0 ES          |           | $\bigotimes$   |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        | м                         |      | -                 | 1.20<br>89.60 |                         |           |                | CL          | Sandy CLAY; low plasticity, pale grey, grading to extremely<br>weathered sandstone, no odour.                               | D          | VSt                    | RESIDUAL SOIL                               |
| ŀ                                                                                                                                                |        |                           |      | -                 | 1.50          | BH6_1.4-1.5 ES          | _/        |                |             | Borehole Terminated at 1.50 mBGL;<br>T/C Bit Refusal.                                                                       |            |                        |                                             |
|                                                                                                                                                  |        |                           |      | -<br>2—           |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | 3                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| 2014-07-05                                                                                                                                       |        |                           |      | 4 —               |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| .000 Datgel Lab and In Situ Tool - DGD   Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05                                                       |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
|                                                                                                                                                  |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| 03 2014-0                                                                                                                                        |        |                           |      | 5                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| ib: EIA 1.                                                                                                                                       |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| - DGD   L                                                                                                                                        |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| Situ Tool                                                                                                                                        |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| ab and In                                                                                                                                        |        |                           |      | 6 —               |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| Datgel L                                                                                                                                         |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| 10.0.000                                                                                                                                         |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| 20 14:34                                                                                                                                         |        |                           |      | 7—                |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| 17/08/20                                                                                                                                         |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| vingFile>>                                                                                                                                       |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| J < <draw< td=""><td></td><td></td><td></td><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></draw<> |        |                           |      | 8                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| LOGS.GF                                                                                                                                          |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| EST PIT                                                                                                                                          |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| 724.E02 T                                                                                                                                        |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| E 3 E24                                                                                                                                          |        |                           |      | 9                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| SOREHOL                                                                                                                                          |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | -                                           |
| g ISAUE                                                                                                                                          |        |                           |      | -                 |               |                         |           |                |             |                                                                                                                             |            |                        | .                                           |
| EIA LIB 1.03.GLB Log IS AUBOREHOLE 3 E24724.E02 TEST PIT LOGS.GPJ < <drawingfile>&gt; 17/08/2020 14:34 10.0</drawingfile>                        |        |                           |      | 10 —              | l             | This borebo             |           | a shou         | ild be      | e read in conjunction with EI Australia's accompanying star                                                                 | ı<br>ndaro | l note                 | 25.                                         |
| A LIB 1.0                                                                                                                                        |        |                           |      |                   |               |                         |           | 3 0.100        |             |                                                                                                                             |            |                        |                                             |
| ш                                                                                                                                                |        |                           |      |                   |               |                         |           |                |             |                                                                                                                             |            |                        |                                             |

|                                                                                                                                                                                                      | Conta | aminat     |       | str               | alia               | Project<br>Location<br>Position<br>Job No.<br>Client | 2 Ma<br>Refe<br>E247 |                | Parac<br>gure 2<br>2 | estigation<br>de, Castle Hill NSW<br>2<br>Contractor Hagstrom<br>Drill Rig Hydrapower So<br>Inclination -90°                                                                                                                                                                                                                                                                                                   | cout     |                                  | Sheet<br>Date Started<br>Date Completed<br>Logged LW<br>Checked MD | 1 OF 1<br>21/7/20                                                          |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-------|-------------------|--------------------|------------------------------------------------------|----------------------|----------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|---|
|                                                                                                                                                                                                      |       |            | Dri   | lling             |                    | Sampling                                             |                      |                |                      | Field Material Desc                                                                                                                                                                                                                                                                                                                                                                                            | riptio   | on                               |                                                                    |                                                                            | - |
| METUOD                                                                                                                                                                                               |       | RESISTANCE | WATER | DEPTH<br>(metres) | <i>DEPTH</i><br>RL | SAMPLE OR<br>FIELD TEST                              | RECOVERED            | GRAPHIC<br>LOG | USCS SYMBOL          | SOIL/ROCK MATERIAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                 | MOISTURE | DENSITENCY<br>DENSITY<br>DENSITY |                                                                    | ETAILS                                                                     |   |
| EA UB 103 GLB Log IS AUBOREHOLE 3 E2#724.E02 TEST PTT LOGS.GPJ < <drawingfile> 2008/2020 16/42 10.0.00 DatgeLab and In Stu Tool - DGD Lib: EIA 1.03 2014-07-45 Pf; EIA 1.03 2014-07-45</drawingfile> |       | -          | GWNE  |                   | 1.40               |                                                      |                      |                |                      | FILL: Gravelly Clayey SAND; medium to coarse grained, light brown, with fine to coarse, sub-angular to angular gravel, sandstone, shale, with some foreign material, brick, metal, concrete, PVC, no odour.         Silty CLAY; low to medium plasticity, light brown mottled orange, extremely weathered sandstone, no odour.         Borehole Terminated at 1.50 mBGL;         T/C Bit Refusal on Sandstone. |          |                                  |                                                                    | Grout<br>Bentonite<br>UPVC 50 mm<br>Casing<br>Sand<br>uPVC 50 mm<br>Screen | - |
| EIA LIB 1.03.GLB                                                                                                                                                                                     |       |            |       |                   |                    | This bore                                            | nole lo              | ig shoi        | uld be               | e read in conjunction with EI Australia's accompanying sta                                                                                                                                                                                                                                                                                                                                                     | ndar     | d notes.                         |                                                                    |                                                                            |   |

Г









Project

Location

Position

Job No.

Client

Detailed Site Investigation

Refer to Figure 2

Deicorp Pty Ltd

E24724.E02

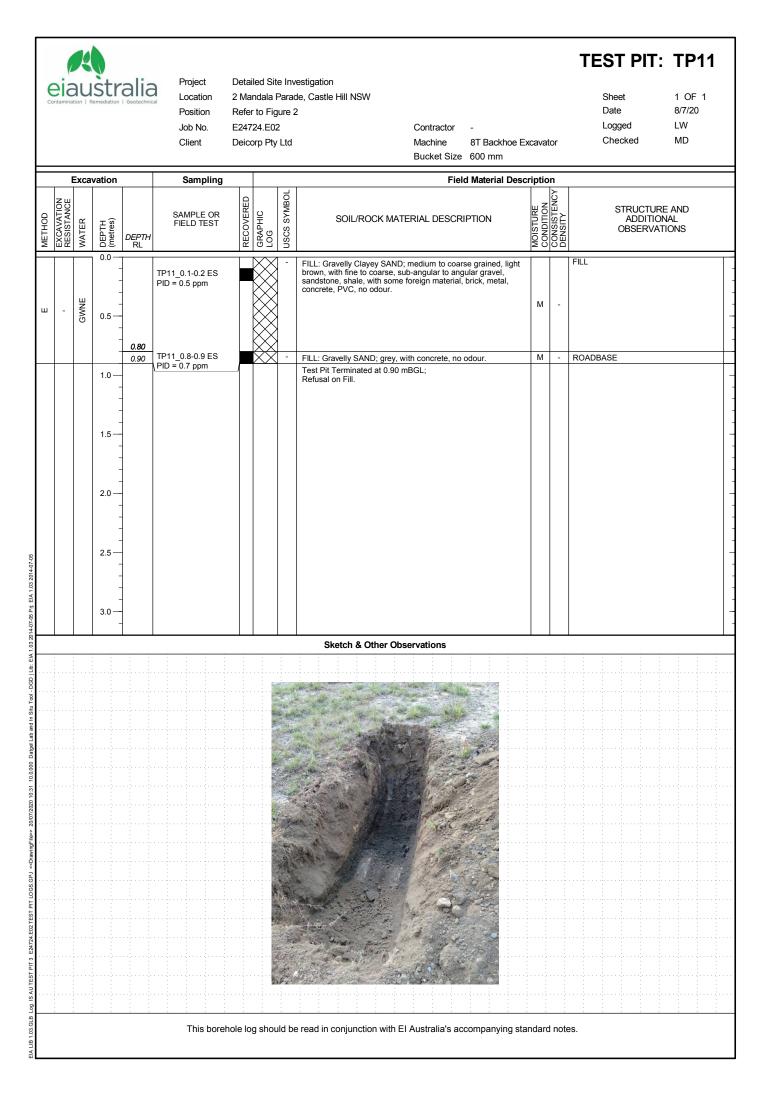
2 Mandala Parade, Castle Hill NSW

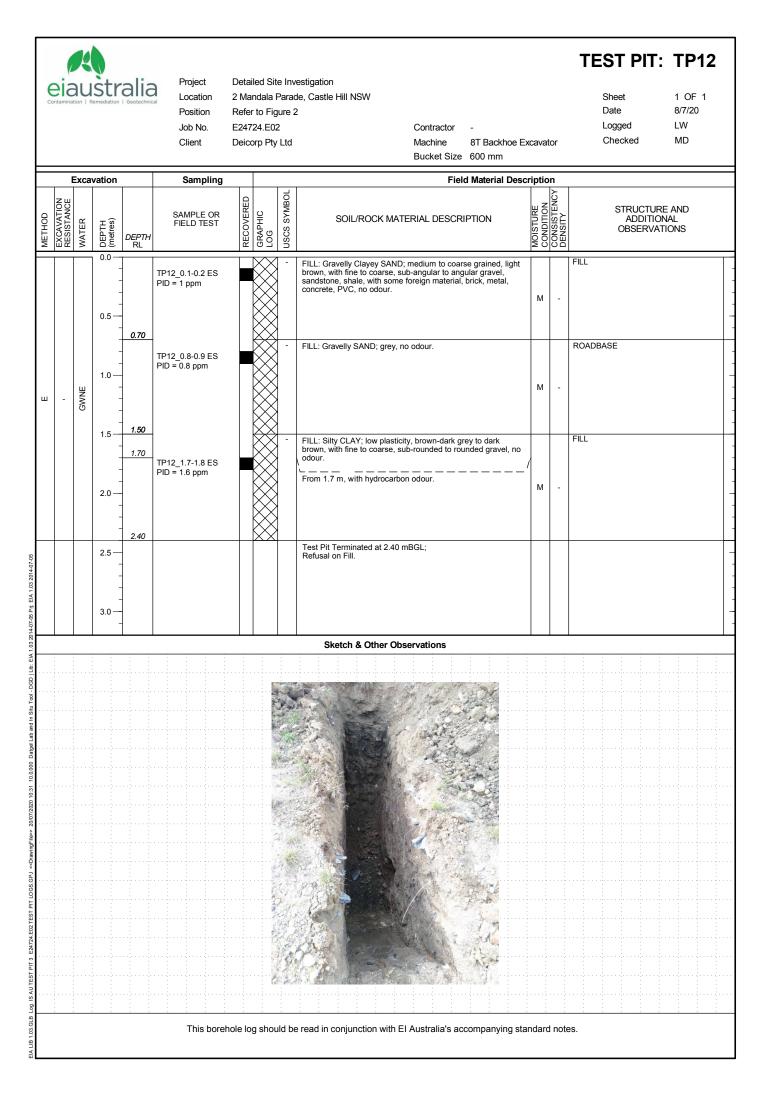
## **TEST PIT: TP10**

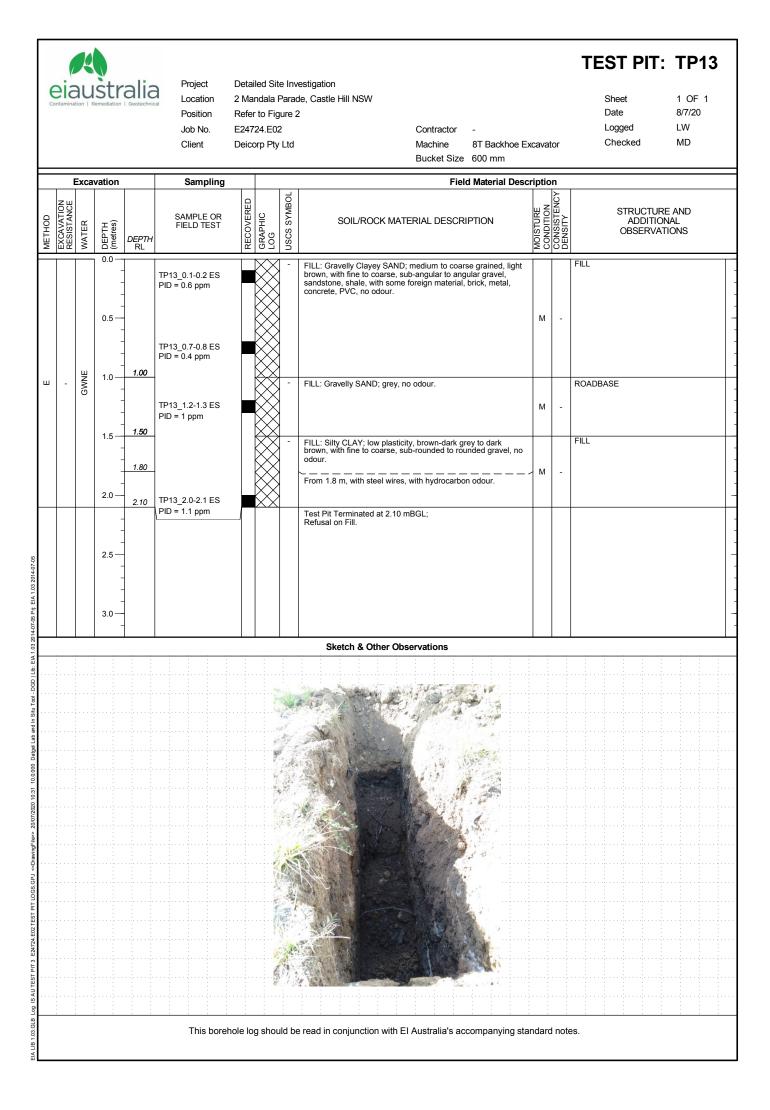
1

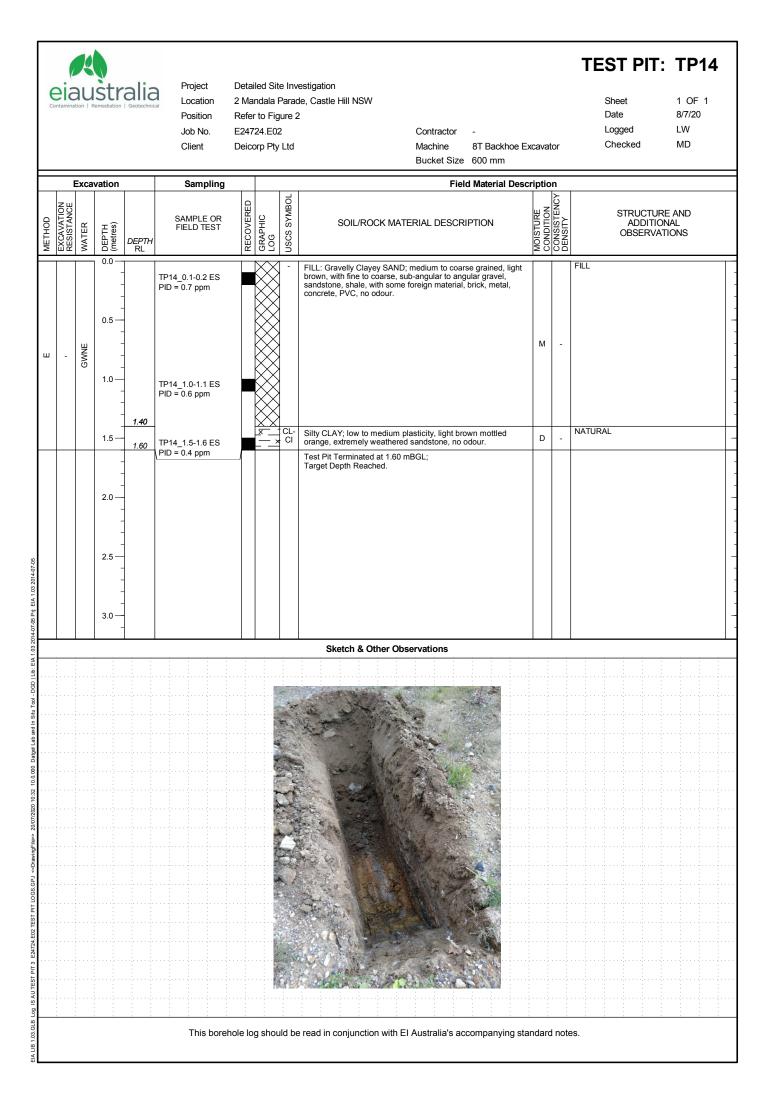
|            |                      | Sheet   | 1 OF 1 |
|------------|----------------------|---------|--------|
|            |                      | Date    | 8/7/20 |
| Contractor | -                    | Logged  | LW     |
| Machine    | 8T Backhoe Excavator | Checked | MD     |

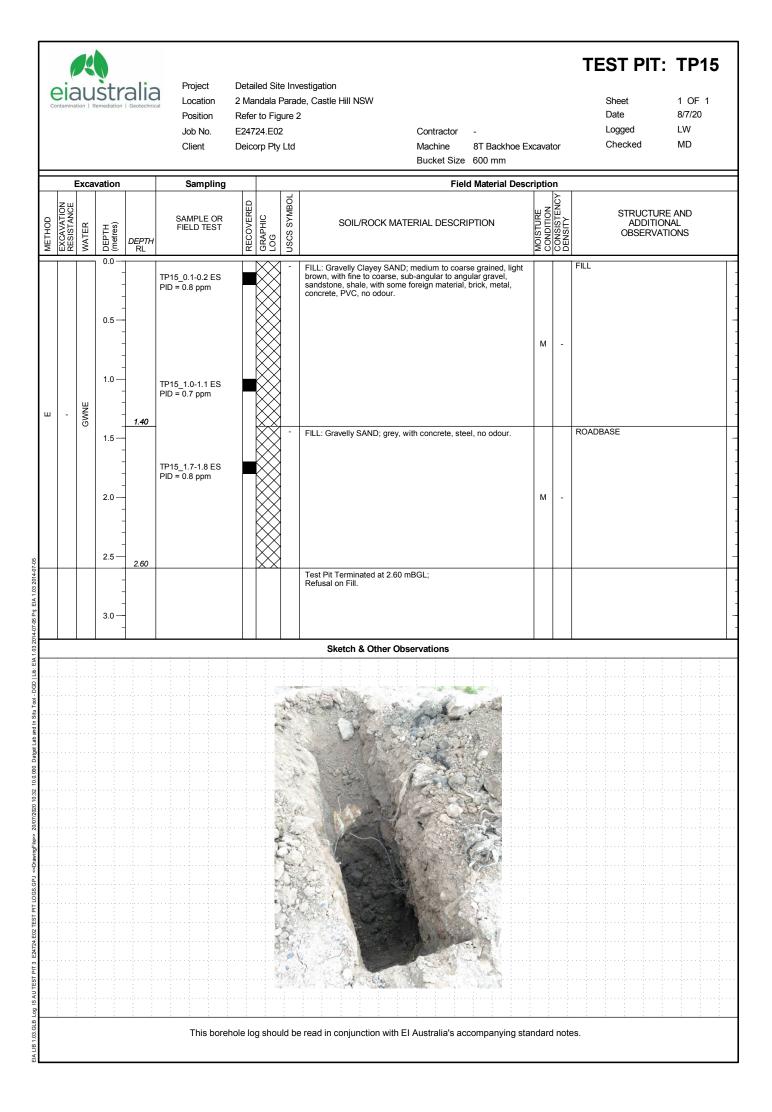
|        |            | xca   | vation               |                     | Sampling                         |           |                |                    | Field Material Desc                                                                                                                                                                                                  |                  |                        |                                             |  |
|--------|------------|-------|----------------------|---------------------|----------------------------------|-----------|----------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------|---------------------------------------------|--|
| MEIHOU | EXCAVATION | WATER | DEPTH<br>(metres)    | DEPTH<br>RL         | Sample or<br>Field test          | RECOVERED | GRAPHIC<br>LOG | <b>USCS SYMBOL</b> | SOIL/ROCK MATERIAL DESCRIPTION                                                                                                                                                                                       | MOISTURE         | CONSISTENCY<br>DENSITY | STRUCTURE AND<br>ADDITIONAL<br>OBSERVATIONS |  |
|        |            |       | 0.0                  |                     | TP10_0.1-0.2 ES<br>PID = 0.7 ppm |           |                | -                  | FILL: Gravelly Clayey SAND; medium to coasre grained, light<br>brown, with fine to coarse, sub-angular to angular gravel,<br>sandstone, shale, with some foreign material, brick, metal,<br>concrete, PVC, no odour. |                  |                        | FILL                                        |  |
| 1      | -          | GWNE  | 0.5 —<br>-<br>-<br>- | •                   |                                  |           |                |                    |                                                                                                                                                                                                                      | м                | -                      |                                             |  |
|        |            |       | 1.0—<br>-<br>-       | <u>1.30</u><br>1.40 | TP10_1.0-1.1 ES<br>PID = 0.6 ppm |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       | 1.5 —<br>-<br>-      |                     |                                  |           |                |                    | Test Pit Terminated at 1.40 mBGL;<br>Refusal on Fill.                                                                                                                                                                |                  |                        |                                             |  |
|        |            |       | 2.0                  |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       | -<br>2.5—            |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       | 3.0 —                | -                   |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    | Sketch & Other Observations                                                                                                                                                                                          |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    | <b>P</b>                                                                                                                                                                                                             | •<br>•<br>•<br>• |                        |                                             |  |
| ••••   |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                | 1.                 | And the second second                                                                                                                                                                                                |                  |                        | •••••••••••••••••••••••••••••••••••••••     |  |
|        |            |       |                      |                     |                                  |           |                | 14                 |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                | J.                 | - Total Contraction                                                                                                                                                                                                  |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           | No. 10         |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    | ALL ALL                                                                                                                                                                                                              |                  |                        |                                             |  |
|        |            |       | -                    |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  | :                      |                                             |  |
|        |            |       |                      |                     |                                  |           |                | A REAL             |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                | 16                 |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                | X                  |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                | TRE                |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     |                                  |           |                |                    |                                                                                                                                                                                                                      |                  |                        |                                             |  |
|        |            |       |                      |                     | This borebo                      | ole Ir    | a shoi         | ild he             | e read in conjunction with EI Australia's accompanying sta                                                                                                                                                           | ndar             | d note                 | es.                                         |  |

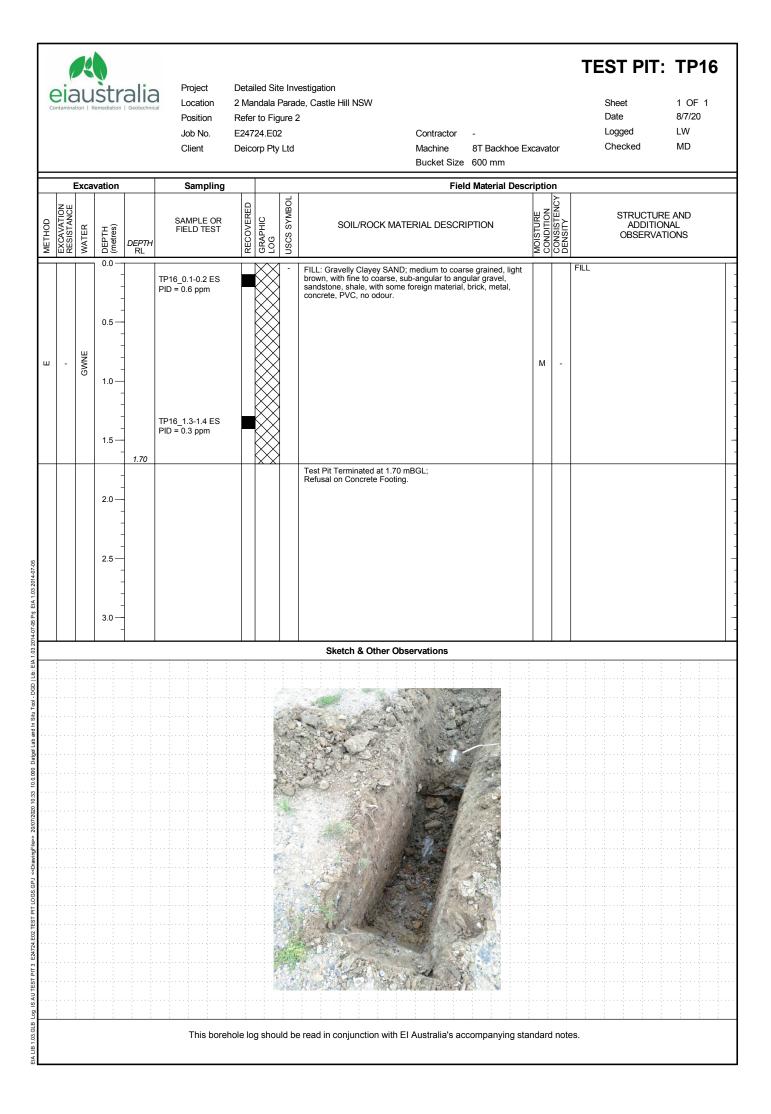


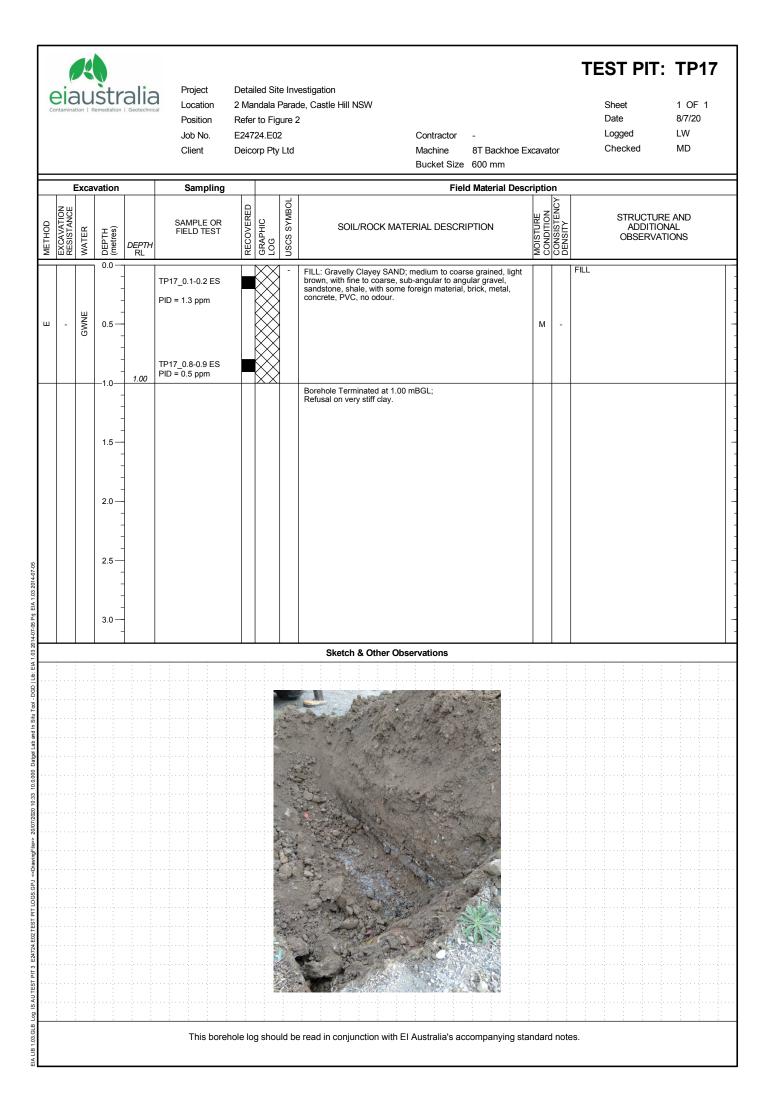


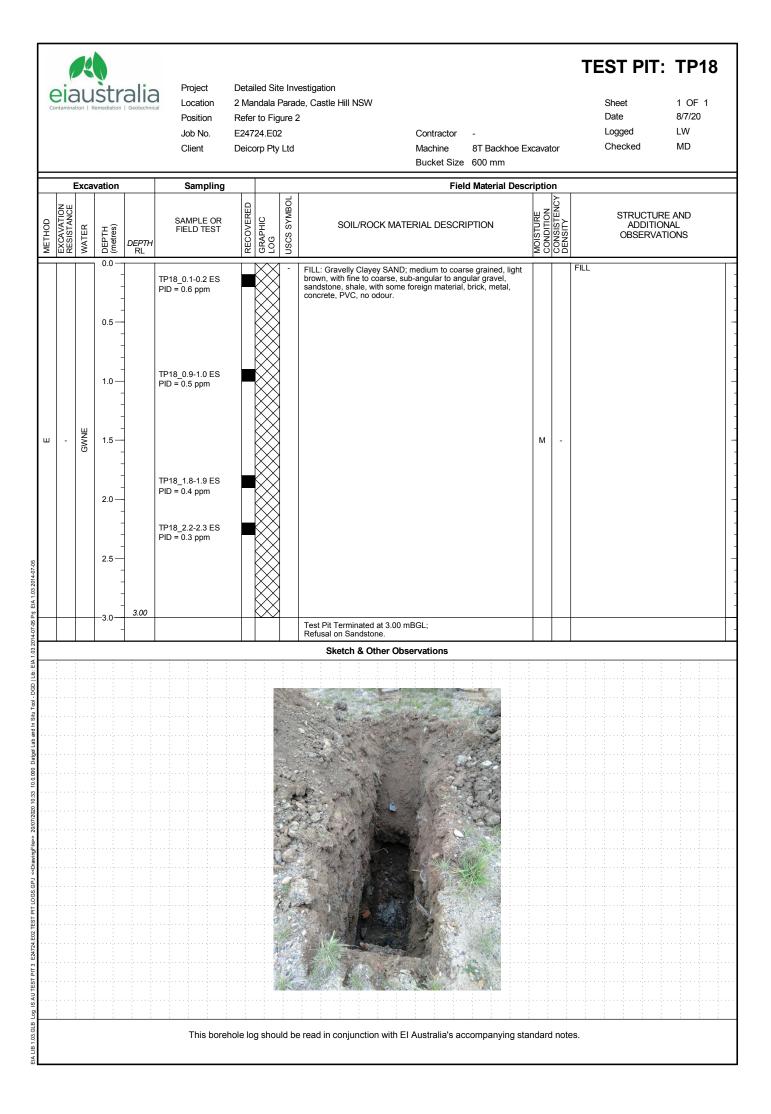


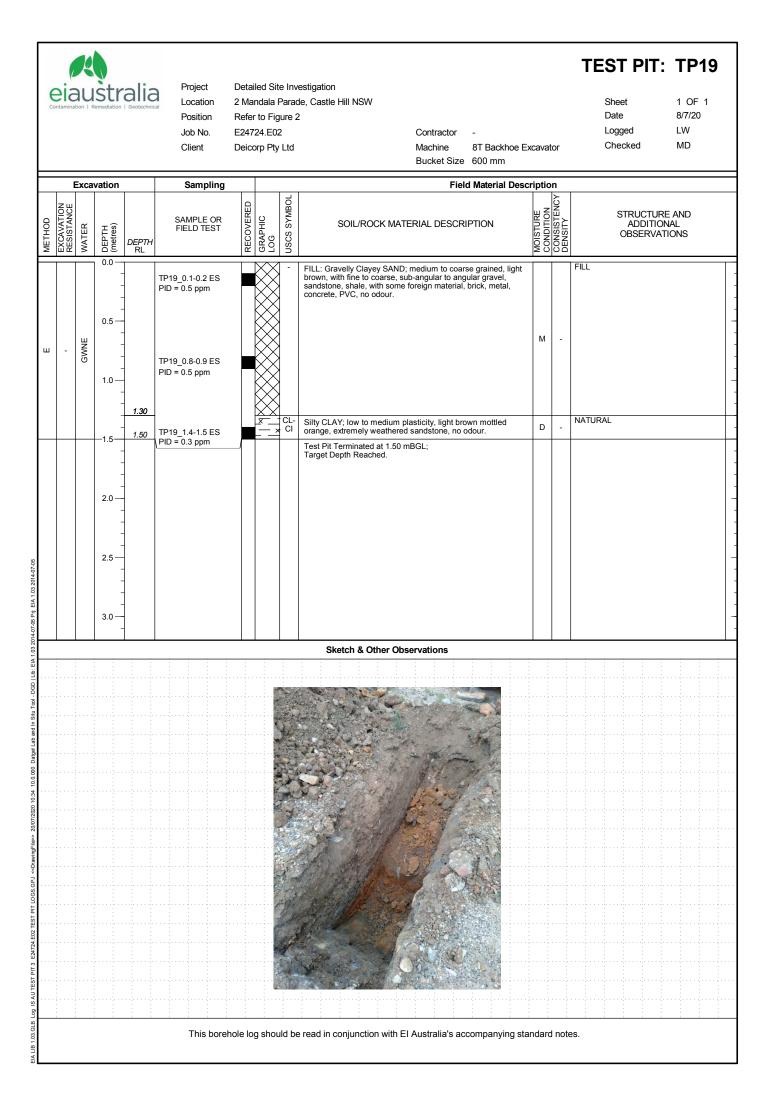














# EXPLANATION OF NOTES, ABBREVIATIONS & TERMS USED ON BOREHOLE AND TEST PIT LOGS

| ontamination   Remediation   Geotechnical                            |                                                                                                      |                                      |                                                               |                   |                 |                                                                                         |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------|-------------------|-----------------|-----------------------------------------------------------------------------------------|
| DRILLING/EXCAVATIO                                                   | N METHOD                                                                                             |                                      |                                                               |                   |                 |                                                                                         |
| HA Hand Auger                                                        | r                                                                                                    | RD                                   | Rotary blade of                                               | r drag bit        | NQ              | Diamond Core - 47 mm                                                                    |
| DTC Diatube Cor                                                      | 0                                                                                                    | RT                                   | Rotary Tricone                                                |                   |                 | Diamond Core - 52 mm                                                                    |
|                                                                      | ctive digging                                                                                        | RAB                                  | Rotary Air Blas                                               |                   | HQ<br>HMLC      | Diamond Core - 63 mm<br>Diamond Core - 63mm                                             |
| AS* Auger Screv                                                      |                                                                                                      | RC                                   | Reverse Circul                                                | ation             | -               |                                                                                         |
| AD* Auger Drillir                                                    | ng                                                                                                   | PT                                   | Push Tube                                                     |                   | BH              | Tractor Mounted Backhoe                                                                 |
| *V V-Bit                                                             |                                                                                                      | CT                                   | Cable Tool Rig                                                |                   | EX<br>EE        | Tracked Hydraulic Excavator                                                             |
| *T TC-Bit, e.g.                                                      |                                                                                                      | JET                                  | Jetting                                                       |                   |                 | Existing Excavation                                                                     |
| ADH Hollow Aug                                                       |                                                                                                      | WB                                   | Washbore or B                                                 | aller             | TAND            | Excavated by Hand Methods                                                               |
| PENETRATION/EXCAV                                                    | ATION RESISTA                                                                                        | NCE                                  |                                                               |                   |                 |                                                                                         |
| L Low resistance                                                     | . Rapid penetration/                                                                                 | excavatio                            | on possible with li                                           | ittle effort from | n equipment     | used.                                                                                   |
|                                                                      |                                                                                                      |                                      |                                                               |                   |                 | rate effort from equipment used.                                                        |
|                                                                      |                                                                                                      |                                      |                                                               |                   |                 |                                                                                         |
| -                                                                    |                                                                                                      |                                      |                                                               |                   |                 | hificant effort from equipment used.                                                    |
|                                                                      |                                                                                                      |                                      |                                                               |                   | -               | acceptable wear to equipment used.                                                      |
| These assessments are sub<br>excavation or drilling tools a          |                                                                                                      |                                      |                                                               | cluding equip     | ment power a    | and weight, condition of                                                                |
| WATER                                                                |                                                                                                      |                                      |                                                               | 4                 |                 |                                                                                         |
| ¥                                                                    | Water level at date                                                                                  | e shown                              |                                                               | $\triangleleft$   | Partial wat     | ter loss                                                                                |
| $\triangleright$                                                     | Water inflow                                                                                         |                                      |                                                               |                   | Complete        | water loss                                                                              |
| GROUNDWATER<br>NOT OBSERVED                                          | Observation of gro<br>or cave-in of the b                                                            |                                      |                                                               | nt or not, was    | s not possibl   | e due to drilling water, surface seepage                                                |
| GROUNDWATER<br>NOT ENCOUNTERED                                       | •                                                                                                    | ,                                    |                                                               |                   |                 | er could be present in less permeable<br>n left open for a longer period.               |
| SAMPLING AND TESTI                                                   |                                                                                                      |                                      |                                                               |                   | •               |                                                                                         |
| 4,7,11 N=18<br>seating 30/80mm<br>RW<br>HW<br>HB                     | 4,7,11 = Blows per<br>Where practical r<br>Penetration occur<br>Penetration occur<br>Hammer double b | efusal oco<br>rred unde<br>rred unde | curs, the blows an<br>er the rod weight o<br>r the hammer and | nd penetratior    | n for that inte | following 150mm<br>erval are reported                                                   |
| Sampling                                                             |                                                                                                      | -                                    |                                                               |                   |                 |                                                                                         |
| DS                                                                   | Disturbed Sample                                                                                     | Э                                    |                                                               |                   |                 |                                                                                         |
| BDS                                                                  | Bulk disturbed Sa                                                                                    | ample                                |                                                               |                   |                 |                                                                                         |
| GS                                                                   | Gas Sample                                                                                           |                                      |                                                               |                   |                 |                                                                                         |
| NS                                                                   | Water Sample                                                                                         |                                      |                                                               |                   |                 |                                                                                         |
| J63                                                                  | Thin walled tube                                                                                     | sample -                             | number indicates                                              | nominal sam       | iple diameter   | r in millimetres                                                                        |
| Testing                                                              |                                                                                                      |                                      |                                                               |                   |                 |                                                                                         |
| =P<br>=VS                                                            | Field Permeability                                                                                   | •                                    |                                                               | otod oboor of     | ronath (ov -    | noak volue, er = regidual value)                                                        |
| PID                                                                  | Photoionisation D                                                                                    | •                                    |                                                               | cied shear si     | rength (sv =    | peak value, sr = residual value)                                                        |
| PM                                                                   | Pressuremeter te                                                                                     |                                      | 0 11                                                          |                   |                 |                                                                                         |
| p                                                                    | Pocket Penetrom                                                                                      |                                      |                                                               | trument readir    | ng in kPa       |                                                                                         |
| WPT                                                                  | Water Pressure to                                                                                    |                                      | ,                                                             |                   | J L             |                                                                                         |
| CCP                                                                  | Dynamic Cone P                                                                                       |                                      | ter test                                                      |                   |                 |                                                                                         |
| CPT                                                                  | Static Cone Pene                                                                                     |                                      |                                                               |                   |                 |                                                                                         |
| CPTu                                                                 | Static Cone Pene                                                                                     | etration tes                         | st with pore press                                            | sure (u) measi    | urement         |                                                                                         |
|                                                                      |                                                                                                      |                                      |                                                               |                   |                 | soil contamination assessment                                                           |
|                                                                      | ole evidence of conta                                                                                |                                      |                                                               | R = A             |                 | ural odours identified                                                                  |
| - 5                                                                  | evidence of visible co                                                                               | maminati                             |                                                               | R = B<br>R = C    | 0               | natural odours identified                                                               |
|                                                                      | contamination                                                                                        | ation                                |                                                               | -                 |                 | non-natural odours identified                                                           |
|                                                                      | ant visible contamina                                                                                | allOII                               |                                                               | R = D             | Suong non-      | -natural odours identified                                                              |
|                                                                      |                                                                                                      | 000                                  |                                                               | 0/0m ( (0/ )      |                 |                                                                                         |
| TCR = Total Core Recov                                               | • • •                                                                                                |                                      | = Solid Core Rec                                              | ,                 |                 | RQD = Rock Quality Designation (%)                                                      |
|                                                                      |                                                                                                      | Σí ongth                             | ofcylindrical core                                            | recovered         | 100             | ΣAxial Lenghts of core>100mm                                                            |
| $= \frac{\text{Length of core recevered}}{\text{Lengh of core run}}$ | x 100 =                                                                                              | $=\frac{2 \text{ Length}}{2}$        | Lengh of core ru                                              |                   | 100 =           | $\frac{\Sigma Axial \ Lenghts \ of \ core > 100 mm}{Lengh \ of \ core \ run} \ x \ 100$ |
|                                                                      |                                                                                                      |                                      |                                                               |                   |                 | Lengh of core run x 100                                                                 |

|                         |                                                                                                                                                                 |                                |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | мстц                                             |               |                                                              |                                 |  |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|--------------------------------------------------------------|---------------------------------|--|--|--|--|--|--|--|
| eiaust                  | tralia                                                                                                                                                          | A                              |                                                                   | USED O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |               | AND TEST PI                                                  |                                 |  |  |  |  |  |  |  |
| Contamination   Remedia | FILL                                                                                                                                                            | al                             | .000.                                                             | GANIC SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |               | CLAY (CL, C                                                  | CI or CH)                       |  |  |  |  |  |  |  |
|                         |                                                                                                                                                                 | BLES or                        | * * *                                                             | T (ML or M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |               | SAND (SP c                                                   | or SW)                          |  |  |  |  |  |  |  |
| 802<br>202              |                                                                                                                                                                 | LDERS<br>VEL (GP or            | " × × ×                                                           | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |               | ·                                                            | ·                               |  |  |  |  |  |  |  |
| 20°20                   | GW)                                                                                                                                                             |                                | Combinations o<br>sandy clay                                      | of these basic s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ymbols may l                                     | be used to    | indicate mixed mater                                         | als such as                     |  |  |  |  |  |  |  |
| Soil is broadl          | y classifie                                                                                                                                                     | d and described in             | STRATIGRAPHY<br>Borehole and Test Pir<br>aterial properties are a | it Logs using th<br>assessed in the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | e preferred m                                    | ethod give    | n in AS1726 – 1993,<br>ethods.                               | (Amdt1 –                        |  |  |  |  |  |  |  |
|                         |                                                                                                                                                                 | HARACTERISTI                   |                                                                   | USCS SY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                |               |                                                              |                                 |  |  |  |  |  |  |  |
| Major Divi              |                                                                                                                                                                 | Sub Division                   | Particle Size                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Divisions                                        | Symbol        | Descrip                                                      | tion                            |  |  |  |  |  |  |  |
|                         | BOULD                                                                                                                                                           |                                | >200 mm                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               | Well graded grave                                            |                                 |  |  |  |  |  |  |  |
|                         | COBBL                                                                                                                                                           |                                | 63 to 200 mm                                                      | Sss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | % o<br>s are                                     | GW            | sand mixtures, litt                                          | le or no fines.                 |  |  |  |  |  |  |  |
|                         |                                                                                                                                                                 | Coarse                         | 20 to 63 mm                                                       | SS le                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n 50<br>ains<br>îmm                              | GP            | Poorly graded graves sand mixtures, litt                     | 0                               |  |  |  |  |  |  |  |
|                         | . –                                                                                                                                                             |                                |                                                                   | an 0 SC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | thai<br>te gr<br>2.36                            | GM            | Silty gravel, grav                                           | vel-sand-silt                   |  |  |  |  |  |  |  |
| GRAVE                   | :L                                                                                                                                                              | Medium<br>Fine                 | 6 to 20 mm<br>2 to 6 mm                                           | er thick in the second se | More than 50% of<br>coarse grains are<br>>2.36mm | GC            | mixture<br>Clayey gravel, gra                                |                                 |  |  |  |  |  |  |  |
|                         |                                                                                                                                                                 | Coarse                         | 0.6 to 2 mm                                                       | <b>GRA</b><br>50% by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  | SW            |                                                              | and gravelly                    |  |  |  |  |  |  |  |
| SAND                    | N S                                                                                                                                                             |                                |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
|                         | SAND     Coarse     0.6 to 2 mm       Medium     0.2 to 0.6 mm       Fine     0.075 to 0.2mm       SILT     0.002 to 0.075 mm       Clay     <0.002 to 0.075 mm |                                |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
|                         | SILT                                                                                                                                                            | Γ                              | 0.002 to 0.075 mm                                                 | Mo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Aore<br>f co;<br>are                             | SC            | Clayey sand, sand, s                                         |                                 |  |  |  |  |  |  |  |
|                         | CLA                                                                                                                                                             | Y                              | <0.002 mm                                                         | <b>±</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20                                               | 30            | mixture                                                      |                                 |  |  |  |  |  |  |  |
|                         | PLAS                                                                                                                                                            | STICITY PROPE                  | RTIES                                                             | LS<br>mass<br>than                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | less                                             | ML            | Inorganic silts of<br>very fine sands, r<br>or clayey fine   | ock flour, silty                |  |  |  |  |  |  |  |
| 40<br>30                | CL<br>Lowplast                                                                                                                                                  | Ci H<br>Medium<br>plastici ty  | igh plasticity<br>day                                             | FINE GRAINED SOILS<br>More than 50% by dry mass<br>less than 63mm is less than<br>0.075mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Liquid Limit less<br>< 50%                       | CL            | Inorganic clays of<br>plasticity, gravelly                   | low to medium<br>/ clays, sandy |  |  |  |  |  |  |  |
| dex (%                  | clay                                                                                                                                                            | plasticity<br>day              |                                                                   | <b>3 AINI</b><br>50%<br>33mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Liqu                                             | OL            | clays, silty<br>Organic silts and                            | l organic silty                 |  |  |  |  |  |  |  |
| 4 20 -<br>21            |                                                                                                                                                                 |                                | OH orMH<br>High liquid limit<br>silt                              | Han (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ,                                                | MH            | clays of low p<br>Inorganic silts of h                       |                                 |  |  |  |  |  |  |  |
| – 10 –                  |                                                                                                                                                                 | CL or ML                       | U.K.                                                              | ore t<br>ss th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Liquid<br>Limit ><br>than<br>50%                 | CH            | Inorganic clays of                                           |                                 |  |  |  |  |  |  |  |
|                         | CL/ML Clay/Silt<br>L or ML - Low liquid lin                                                                                                                     | Low liquid<br>limits lit       |                                                                   | ĕ ĕ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  | OH            | Organic clays of m                                           | ity.                            |  |  |  |  |  |  |  |
| 0                       | 10 20                                                                                                                                                           | ) 30 40 50<br>Liquid Limit (%) | 60 70 80                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  | PT            | Peat muck and organic s                                      |                                 |  |  |  |  |  |  |  |
| MOISTUR                 | E COND                                                                                                                                                          | TION                           |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
| Symbol                  | Term                                                                                                                                                            | Description                    |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
| D<br>M                  | Dry                                                                                                                                                             |                                | Is are free flowing. Cl                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
| W                       | Moist<br>Wet                                                                                                                                                    |                                | han in the dry condition water. Sands and grave                   | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  | nu graveis    | tend to cohere.                                              |                                 |  |  |  |  |  |  |  |
| Moisture co             | ontent of c                                                                                                                                                     |                                | also be described in re                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  | r liquid limi | t (WL) [» much great                                         | er than,                        |  |  |  |  |  |  |  |
| CONSISTEN               |                                                                                                                                                                 |                                | -                                                                 | DENSITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
| Symbol                  | Term                                                                                                                                                            | Undrained S                    | Shear Strength                                                    | Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Term                                             |               | Density Index %                                              | SPT "N" #                       |  |  |  |  |  |  |  |
| VS                      | Very Sc                                                                                                                                                         | oft 0. to                      | 12 kPa                                                            | VL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very Loo                                         |               | < 15                                                         | 0 to 4                          |  |  |  |  |  |  |  |
| S<br>F                  | Soft<br>Firm                                                                                                                                                    |                                | 25 kPa<br>50 kPa                                                  | L<br>MD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Loose<br>Medium De                               |               | 15 to 35<br>35 to 65                                         | 4 to 10<br>10 to 30             |  |  |  |  |  |  |  |
| St                      | Stiff                                                                                                                                                           | 50 to                          | 100 kPa                                                           | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Dense                                            |               | 65 to 85                                                     | 30 to 50                        |  |  |  |  |  |  |  |
| VSt<br>H                | Very Sti<br>Hard                                                                                                                                                |                                | 200 kPa<br>200 kPa                                                | VD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very Der                                         | ise           | Above 85                                                     | Above 50                        |  |  |  |  |  |  |  |
| In the absend           | ce of test i                                                                                                                                                    | results, consistenc            | y and density may be a<br>26 – 1993, and may b                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
| MINOR CO                |                                                                                                                                                                 |                                | <u></u> ioco, and may b                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |               |                                                              |                                 |  |  |  |  |  |  |  |
| Term                    |                                                                                                                                                                 | nent Guide                     |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  | Pro           | oportion by Mass                                             |                                 |  |  |  |  |  |  |  |
| Trace                   | Presence                                                                                                                                                        | e just detectable b            | y feel or eye but soil pr<br>operties of primary co               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                | Coars         | se grained soils: $\leq 5\%$<br>se grained soil: $\leq 15\%$ | 5                               |  |  |  |  |  |  |  |
| Some                    | Presenc                                                                                                                                                         | e easily detectable            | by feel or eye but soil<br>operties of primary co                 | I properties little                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | e                                                | Coarse        | grained soils: 5 - 12<br>grained soil: 15 - 30%              |                                 |  |  |  |  |  |  |  |



### ABBREVIATIONS AND DESCRIPTIONS FOR ROCK MATERIAL AND DEFECTS

#### CLASSIFICATION AND INFERRED STRATIGRAPHY

Rock is broadly classified and described in Borehole Logs using the preferred method given in AS1726 – 1993, (Amdt1 – 1994 and Amdt2 – 1994), Appendix A. Material properties are assessed in the field by visual/ tactile methods.

|                                                                                                                                                                                                                                                                                                                                                                                                         |        | <i>,</i> , ,     |                                         |                                         | 400000                | cu ii         | The held by                        |                       |                                                                                                |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|-----------------------------------------|-----------------------------------------|-----------------------|---------------|------------------------------------|-----------------------|------------------------------------------------------------------------------------------------|--|--|--|--|
| ROCK MATE                                                                                                                                                                                                                                                                                                                                                                                               |        | DESCRIP          | TION                                    |                                         |                       |               |                                    |                       |                                                                                                |  |  |  |  |
| Layering                                                                                                                                                                                                                                                                                                                                                                                                |        |                  |                                         |                                         | Struc                 | cture         |                                    |                       |                                                                                                |  |  |  |  |
| Term                                                                                                                                                                                                                                                                                                                                                                                                    |        | Descr            | iption                                  |                                         | Term                  | 1             |                                    |                       | Spacing (mm)                                                                                   |  |  |  |  |
| Massive                                                                                                                                                                                                                                                                                                                                                                                                 |        | No lav           | ering apparent                          |                                         | Thinly                | y lam         | inated                             |                       | <6                                                                                             |  |  |  |  |
| IVIASSIVE                                                                                                                                                                                                                                                                                                                                                                                               |        | NO IAY           | ening apparent                          |                                         | Lamii                 | nated         | k                                  |                       | 6 – 20                                                                                         |  |  |  |  |
| Poorly Deve                                                                                                                                                                                                                                                                                                                                                                                             | loned  |                  | ng just visible; litt                   | tle effect on                           | Very                  | thinly        | / bedded                           |                       | 20 – 60                                                                                        |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         | lopou  | proper           | ties                                    |                                         | Think                 |               |                                    |                       | 60 – 200                                                                                       |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |        |                  | ng (bedding, folia                      |                                         |                       |               | edded                              |                       | 200 - 600                                                                                      |  |  |  |  |
| Well Develop                                                                                                                                                                                                                                                                                                                                                                                            | ped    |                  | t; rock breaks mo<br>I to layering      | ore easily                              |                       |               | dded                               |                       | 600 - 2,000                                                                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |        | -                |                                         |                                         | <i>,</i>              | thick         | ly bedded                          |                       | > 2,000                                                                                        |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |        | 1                | CRIPTIONS FO                            | R DEFECT TYP                            | ES                    |               |                                    |                       |                                                                                                |  |  |  |  |
| Defect Type                                                                                                                                                                                                                                                                                                                                                                                             | )      | Abbr.            | Description                             |                                         |                       |               |                                    |                       |                                                                                                |  |  |  |  |
| Joint                                                                                                                                                                                                                                                                                                                                                                                                   |        | J                | or no tensile str<br>acts as cement.    | ength. May be c                         | losed or              | r filleo      | d by air, wate                     | er or soil            | ross which the rock has little<br>or rock substance, which                                     |  |  |  |  |
| Bedding Pa                                                                                                                                                                                                                                                                                                                                                                                              | rting  | В                | sub-parallel to la<br>indicating orient | ayering/ bedding<br>tation during dep   | g. Beddi<br>position, | ng re<br>resu | efers to the la<br>Ilting in plana | yering o<br>Ir anisot | no tensile strength, parallel or<br>or stratification of a rock,<br>ropy in the rock material. |  |  |  |  |
| Foliation                                                                                                                                                                                                                                                                                                                                                                                               |        | х                |                                         |                                         |                       |               |                                    |                       | endicular to the direction of (S) and Gneissosity.                                             |  |  |  |  |
| Contact                                                                                                                                                                                                                                                                                                                                                                                                 |        | С                | The surface bet                         | ween two types                          | or ages               | of ro         | ock.                               |                       |                                                                                                |  |  |  |  |
| Cleavage                                                                                                                                                                                                                                                                                                                                                                                                |        | L                |                                         |                                         |                       |               |                                    |                       | urfaces resulting from ism, independent of bedding.                                            |  |  |  |  |
| Sheared Seam/<br>Zone (Fault)         SS/SZ         Seam or zone with roughly parallel almost planar boundaries of rock substance cut by closed (often <50 mm) parallel and usually smooth or slickensided joints or cleavage planar                                                                                                                                                                    |        |                  |                                         |                                         |                       |               |                                    |                       |                                                                                                |  |  |  |  |
| Zone (Fault)         Spaced (often <50 mm) parallel and usually smooth or slickensided joints or cleavage plan           Crushed Seam/<br>Zone (Fault)         CS/CZ         Seam or zone composed of disoriented usually angular fragments of the host rock substar<br>with roughly parallel near-planar boundaries. The fragments may be of clay, silt, sand or<br>gravel sizes or mixtures of these. |        |                  |                                         |                                         |                       |               |                                    |                       |                                                                                                |  |  |  |  |
| Decompose<br>Seam/ Zone                                                                                                                                                                                                                                                                                                                                                                                 |        | DS/DZ            | Seam of soil su material in place       |                                         | /ith grad             | latior        | al boundarie                       | s, forme              | ed by weathering of the rock                                                                   |  |  |  |  |
| Infilled Sear                                                                                                                                                                                                                                                                                                                                                                                           | n      | IS/IZ            |                                         | bstance, usually<br>nigrating into joir |                       |               |                                    | distinct              | roughly parallel boundaries,                                                                   |  |  |  |  |
| Schistocity                                                                                                                                                                                                                                                                                                                                                                                             |        | S                | of platy or prism                       | natic mineral gra                       | ins, suc              | h as          | mica.                              |                       | e to the parallel arrangement                                                                  |  |  |  |  |
| Vein                                                                                                                                                                                                                                                                                                                                                                                                    |        | V                | Distinct sheet-li<br>or crack-seal gr   |                                         | rals crys             | stallis       | ed within roc                      | k throug              | gh typically open-space filling                                                                |  |  |  |  |
| ABBREVIAT                                                                                                                                                                                                                                                                                                                                                                                               | IONS A | ND DES           | CRIPTIONS FO                            | R DEFECT SHA                            | PE AN                 | D RC          | UGHNESS                            |                       |                                                                                                |  |  |  |  |
| Shape                                                                                                                                                                                                                                                                                                                                                                                                   | Abbr.  | Descri           | ption                                   | Roughness                               | Abbr.                 | Des           | cription                           |                       |                                                                                                |  |  |  |  |
| Planar                                                                                                                                                                                                                                                                                                                                                                                                  | PI     | Consis           | stent orientation                       | Polished                                | Po                    | Shir          | ny smooth su                       | rface                 |                                                                                                |  |  |  |  |
| Curved                                                                                                                                                                                                                                                                                                                                                                                                  | Cu     | Gradu<br>orienta | al change in<br>ation                   | Slickensided                            | SI                    |               |                                    |                       | ace, usually polished                                                                          |  |  |  |  |
| Undulating                                                                                                                                                                                                                                                                                                                                                                                              | Un     | Wavy             | surface                                 | Smooth                                  | Sm                    | Smo           | ooth to touch                      | . Few or              | r no surface irregularities                                                                    |  |  |  |  |
| Stepped                                                                                                                                                                                                                                                                                                                                                                                                 | St     | define           | r more well<br>d steps                  | Rough                                   | Ro                    | <1m           | nm). Feels lik                     | e fine to             | ularities (amplitude generally coarse sandpaper                                                |  |  |  |  |
| Irregular                                                                                                                                                                                                                                                                                                                                                                                               | Irr    |                  | sharp changes<br>ntation                | Very Rough                              | VRo                   |               |                                    |                       | ularities, amplitude generally<br>parse sandpaper                                              |  |  |  |  |
| Orientation:                                                                                                                                                                                                                                                                                                                                                                                            |        |                  | cal Boreholes –<br>ed Boreholes –       |                                         |                       |               |                                    |                       | the core axis.                                                                                 |  |  |  |  |
| ABBREVIAT                                                                                                                                                                                                                                                                                                                                                                                               | IONS A | ND DES           | CRIPTIONS FOR                           | R DEFECT COA                            | TING                  |               | DEFECT A                           | PERTUR                | RE                                                                                             |  |  |  |  |
| Coating                                                                                                                                                                                                                                                                                                                                                                                                 | Abbr.  | Descrip          | otion                                   |                                         | -                     |               | Aperture                           | Abbr.                 | Description                                                                                    |  |  |  |  |
| Clean                                                                                                                                                                                                                                                                                                                                                                                                   | Cn     | No visibl        | e coating or infill                     | ing                                     |                       |               | Closed                             | CI                    |                                                                                                |  |  |  |  |
| Stain                                                                                                                                                                                                                                                                                                                                                                                                   | Sn     | No visib         | e coating but sui<br>often limonite (c  | rfaces are discol                       | loured b              | у             | Open                               |                       | Without Infill                                                                                 |  |  |  |  |
| Veneer                                                                                                                                                                                                                                                                                                                                                                                                  | ١/r    | A visible        | coating of soil o<br>to measure (< 1    | r mineral substa                        |                       | ually         | Infilled                           | -                     | Soil or rock i.e. clay, talc,<br>pyrite, quartz, etc.                                          |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |        |                  |                                         |                                         |                       | _             |                                    |                       |                                                                                                |  |  |  |  |

Appendix G - Field Data Sheets

|                                                                                                         |               | WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SAMPLI                                                                                                          | NG FIELD      | ) SHEET       |              |               | eiaustralia                                      |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------|---------------|--------------------------------------------------|--|--|--|--|--|--|
| Site Addre                                                                                              | ess:          | 2 Ma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ndala                                                                                                           | Pale          | Cast          | le that      | Job Numb      | per: $F_{24}724$                                 |  |  |  |  |  |  |
| Client:                                                                                                 |               | ercorp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | )                                                                                                               |               | Corse         |              | Date: 24      | 9/7/20                                           |  |  |  |  |  |  |
| Field Staf                                                                                              | f:            | Zu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |               |               |              | Sampling      | Location ID BH3m-a                               |  |  |  |  |  |  |
| Well Loca                                                                                               | ation:        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |               |               |              | Round No      | D:                                               |  |  |  |  |  |  |
| MEDIUM                                                                                                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Groundwa                                                                                                        | ter DS        | urface Wa     | ater         | □Stormw       | vater DOther:                                    |  |  |  |  |  |  |
| SAMPLIN                                                                                                 | IG POINT      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |               |               |              | 0             |                                                  |  |  |  |  |  |  |
| Well Insta                                                                                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 17/20                                                                                                           |               |               |              | Stick up/     | down (m): + /. • (+ above ground - below ground) |  |  |  |  |  |  |
| Initial We                                                                                              |               | V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 21                                                                                                              |               |               |              |               | terval (mBTOC): 4.1-7.1                          |  |  |  |  |  |  |
| Previous                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7-1                                                                                                             |               |               |              | Provious      | SWL (mBTOC):                                     |  |  |  |  |  |  |
| PID REAL                                                                                                |               | Dale.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |               |               |              | Flevious      | SWE (IIBTOC).                                    |  |  |  |  |  |  |
|                                                                                                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |               |               |              |               | and (man)                                        |  |  |  |  |  |  |
| PID Head                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 | -             | •             |              | РІД Васк      | ground (ppm):                                    |  |  |  |  |  |  |
| PID Breat                                                                                               |               | ce (ppm):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                               |               |               |              | 1.00          |                                                  |  |  |  |  |  |  |
| PRE PUR                                                                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                                               |               | 1.            |              |               |                                                  |  |  |  |  |  |  |
| Total Well Depth (mBTOC):       9       Well Head Condition:       Good         SWL (mBTOC):       3<58 |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |               |               |              |               |                                                  |  |  |  |  |  |  |
|                                                                                                         |               | and the second se |                                                                                                                 |               |               |              | Water Co      | lumn (m): 252                                    |  |  |  |  |  |  |
|                                                                                                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CARBON                                                                                                          | IS (PSH)      |               |              | ~             |                                                  |  |  |  |  |  |  |
| Depth to F                                                                                              | PSH (mB1      | <del>06):</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |               |               |              | PSH Visu      | ally Confirmed (Bailer):                         |  |  |  |  |  |  |
| PSH Thic                                                                                                | kness (mr     | n):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |               |               |              | -             |                                                  |  |  |  |  |  |  |
| PURGE A                                                                                                 | ND SAM        | PLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |               |               |              |               |                                                  |  |  |  |  |  |  |
| Sampling                                                                                                | Method        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bladde                                                                                                          | r [           | Peristalti    | с 🗆          | Submersib     | ole DOther:                                      |  |  |  |  |  |  |
|                                                                                                         |               | t (mBTOC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | : 5.9                                                                                                           | 5             |               |              | Fill Timer:   | 1.                                               |  |  |  |  |  |  |
|                                                                                                         |               | gulator (psi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                 |               |               |              | Discharge     | e Timer:                                         |  |  |  |  |  |  |
| Weather (                                                                                               |               | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ne                                                                                                              |               |               | 1            |               | CPM P                                            |  |  |  |  |  |  |
| Pump on                                                                                                 |               | 2:30 Pr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |               |               |              |               | time: 1215 Pm                                    |  |  |  |  |  |  |
|                                                                                                         |               | PARAMET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | the second se |               |               |              | i unp on      |                                                  |  |  |  |  |  |  |
| Probe Ma                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EKS                                                                                                             |               |               |              | Bump Tor      | st Date and Time:                                |  |  |  |  |  |  |
| FIDE Ma                                                                                                 |               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                                                                               | 50            | <b>D</b> 1    | DO           |               | st Date and Time.                                |  |  |  |  |  |  |
| Time                                                                                                    | Volume<br>(L) | SWL<br>(mbtoc)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Temp<br>(°C)                                                                                                    | EC<br>(µS/cm) | Redox<br>(mV) | DO<br>(mg/L) | pH<br>(units) | Comments (colour, turbidity, odour, sheen etc.)  |  |  |  |  |  |  |
| 12:32                                                                                                   | 0.5           | 3.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21.33                                                                                                           | 2396          | 91.2          | 2173         | 5.43          | Cookt brown 1-m                                  |  |  |  |  |  |  |
| (2:34                                                                                                   |               | 3.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21.15                                                                                                           | 2818          | 95.3          | 0.62         | 5:42          | t no no .                                        |  |  |  |  |  |  |
| 12:36                                                                                                   | 1-5           | 3.71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21.10                                                                                                           | 2792          | 97.2          | 0.52         | Firk          |                                                  |  |  |  |  |  |  |
| 12:38                                                                                                   | Z             | 3.79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20.90                                                                                                           | 2782          | 102.9         | 0.61         | 5.30          |                                                  |  |  |  |  |  |  |
| 12240                                                                                                   | 25            | 3.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21.08                                                                                                           | 2809          | 106.2         | 0.59         | 5115          |                                                  |  |  |  |  |  |  |
| ,                                                                                                       |               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |               |               | 1            |               |                                                  |  |  |  |  |  |  |
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| 0.1                                                                                                     | lleette       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |               |               |              |               |                                                  |  |  |  |  |  |  |
|                                                                                                         | lisation ra   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ±0.2°C                                                                                                          | ±3%           | ±20mV         | ±10%         | ±0.2          |                                                  |  |  |  |  |  |  |
|                                                                                                         | ecutive re    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sector Contractor                                                                                               |               |               |              |               |                                                  |  |  |  |  |  |  |
| OTHER C                                                                                                 |               | S/OBSER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |               |               |              |               |                                                  |  |  |  |  |  |  |
|                                                                                                         | G             | in os                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21/                                                                                                             | awo           | 71            | take         | n             |                                                  |  |  |  |  |  |  |
| SIGNATU                                                                                                 | DE            | (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |               |               |              |               |                                                  |  |  |  |  |  |  |
| SIGNATU                                                                                                 | KE:           | red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |               |               |              |               |                                                  |  |  |  |  |  |  |

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| Site Addr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ess: 🐊       | Mand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ala pa       | les Ca        | stle thi                 | и                                                                                                              | Job Numb      | per: F20729                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pera         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | · · · ·      |               | and the second           |                                                                                                                | Date:         | 2917120                                         |
| Field Staf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |               |                          |                                                                                                                |               | Location ID BHAM-a                              |
| Well Loca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |               |                          |                                                                                                                | Round No      |                                                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IG POINT     | and the second se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Groundwa     |               | bullace vva              | ater                                                                                                           | LISTOHIIW     |                                                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ll Depth (n  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8.00         |               |                          |                                                                                                                |               | terval (mBTOC): 5-66 - 8-6-6                    |
| and the second division of the second divisio | Sampling     | Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | 1             |                          |                                                                                                                | Previous      | SWL (mBTOC):                                    |
| PID REA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               | della.                   |                                                                                                                |               |                                                 |
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| and the second se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | thing Spac   | e (ppm):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |               | . Star                   | Deren a                                                                                                        |               |                                                 |
| PRE PUF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |               |                          |                                                                                                                |               |                                                 |
| Total We                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ll Depth (m  | BTOC):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8.66         | 80            |                          |                                                                                                                | Well Head     | d Condition: 6 000                              |
| SWL (mE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BTOC):       | Sige                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | P            |               |                          |                                                                                                                | Water Co      | lumn (m): 3,22                                  |
| PHASE S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EPARATE      | ED HYDRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OCARBON      | IS (PSH)      |                          |                                                                                                                | ~             |                                                 |
| Depth to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PSH (mBI     | OC):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |               |                          |                                                                                                                | PSH Visu      | ally Confirmed (Bailer):                        |
| PSH Thic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | kness (mr    | n):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | 1.0           |                          |                                                                                                                |               |                                                 |
| PURGE A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AND SAMI     | PLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |               |                          |                                                                                                                |               |                                                 |
| Sampling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Method       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bladde       | r I           | Peristalti               | c 🗆                                                                                                            | Submersik     | ole 🛛 Other:                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pump Inle    | t (mBTOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4            |               |                          |                                                                                                                | Fill Timer:   |                                                 |
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| SIGNAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | JRE:                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | C              |          |            |           |                    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                              | rve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1              |          |            |           |                    |                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | t                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |          | -          |           |                    |                                                 |

### WATER SAMPLING FIELD SHEET



| Site Address: 2 manda<br>Client: Percor<br>Field Staff: W                                                                                   | la Pale      | . Cast        | te Hi         | N            | Job Num       | per: E24724                                     |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|---------------|--------------|---------------|-------------------------------------------------|--|--|--|--|--|--|--|
| Client: DOTCOS                                                                                                                              | P            |               |               |              | Date: 12      | 8/8/20                                          |  |  |  |  |  |  |  |
| Field Staff: CN                                                                                                                             | 1            |               |               |              | Sampling      | Location ID BH4M-a                              |  |  |  |  |  |  |  |
| Well Location:                                                                                                                              |              |               |               |              | Round No      |                                                 |  |  |  |  |  |  |  |
| MEDIUM 🕅                                                                                                                                    | Groundwat    | er ⊡S         | urface Wa     | ater         | □Stormw       | ater 🛛 Other:                                   |  |  |  |  |  |  |  |
| SAMPLING POINT INFO                                                                                                                         |              |               |               |              | $\frown$      |                                                 |  |  |  |  |  |  |  |
| Well Installation Date: 2                                                                                                                   | 2/7/20       | )             |               | (            | Stick up/     | down (m): +0.96 (+ above ground - below ground) |  |  |  |  |  |  |  |
| Initial Well Depth (mBTOC):                                                                                                                 | 8.66         |               |               |              |               | terval (mBTOC): 5.66-8.66                       |  |  |  |  |  |  |  |
| Previous Sampling Date:                                                                                                                     | -0           |               |               |              | Previous      | SWL (mBTOC):                                    |  |  |  |  |  |  |  |
| PID READINGS                                                                                                                                |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| PID Headspace (ppm):                                                                                                                        |              |               |               |              | PID Back      | ground (ppm):                                   |  |  |  |  |  |  |  |
| PID Breathing Space (ppm):                                                                                                                  |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| PRE PURGE                                                                                                                                   |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| Total Well Depth (mBTOC):                                                                                                                   | 8.66         |               |               |              | Well Head     | d Condition: Good                               |  |  |  |  |  |  |  |
| SWL (mBTOC): 5,43                                                                                                                           | 0.00         |               |               |              | Water Co      | lumn (m): 子、 ころ                                 |  |  |  |  |  |  |  |
| PHASE SEPARATED HYDR                                                                                                                        | OCARBON      | S (PSH)       |               |              | ~             |                                                 |  |  |  |  |  |  |  |
| Depth to PSH (mBTOG):                                                                                                                       |              |               |               |              | PSH Visu      | ally Confirmed (Bailer):                        |  |  |  |  |  |  |  |
| PSH Thickness (mm):                                                                                                                         |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| PURGE AND SAMPLE                                                                                                                            |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| Sampling Method                                                                                                                             | Bladde       | r E           | Peristalti    | c 🗆          | Submersit     | ble AOther: barles                              |  |  |  |  |  |  |  |
|                                                                                                                                             | ):           |               |               |              | Fill Timer    |                                                 |  |  |  |  |  |  |  |
| Pump Pressure Regulator (ps                                                                                                                 | si):         |               |               |              | Discharge     | e Timer:                                        |  |  |  |  |  |  |  |
| Depth of Pump Inlet (mBTOC):     Fill Timer:       Pump Pressure Regulator (psi):     Discharge Timer:       Weather Conditions:     Cycle: |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| Pump on time:                                                                                                                               |              |               |               |              | Pump off      | time:                                           |  |  |  |  |  |  |  |
| WATER QUALITY PARAME                                                                                                                        | TERS         |               |               |              | · · · · ·     |                                                 |  |  |  |  |  |  |  |
| Probe Make and Model:                                                                                                                       |              |               |               |              | Bump Tes      | st Date and Time:                               |  |  |  |  |  |  |  |
| Time Volume SWL<br>(L) (mbtoc)                                                                                                              | Temp<br>(°C) | EC<br>(µS/cm) | Redox<br>(mV) | DO<br>(mg/L) | pH<br>(units) | Comments (colour, turbidity, odour, sheen etc.) |  |  |  |  |  |  |  |
|                                                                                                                                             | (0)          | (Jorenn)      | (11.4)        | (ing/L)      | (units)       |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               | Light brown, L-m,                               |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               | NO, NO                                          |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| Stabilisation range:                                                                                                                        |              |               |               |              |               |                                                 |  |  |  |  |  |  |  |
| 3 consecutive readings                                                                                                                      | ±0.2°C       | ±3%           | ±20mV         | ±10%         | ±0.2          |                                                 |  |  |  |  |  |  |  |
| OTHER COMMENTS/OBSE                                                                                                                         | RVATIONS     | :             |               |              |               |                                                 |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               | for 1         | heavy        | meta          | 1 testing                                       |  |  |  |  |  |  |  |
|                                                                                                                                             |              |               |               |              |               | 0                                               |  |  |  |  |  |  |  |
| SIGNATURE:                                                                                                                                  | ed           |               |               |              |               |                                                 |  |  |  |  |  |  |  |

I

# Appendix H - Chain of Custody and Sample Receipt Forms

| Sheet 1 o                                                                              | of                | _                                                 |           |                         | San       | nple N     | /latrix                          |                                                       |                |                           |          |                  |          |                   | Ana                        | lysis                             |                  |        |         |        |         |        |                       | Comments                                                |
|----------------------------------------------------------------------------------------|-------------------|---------------------------------------------------|-----------|-------------------------|-----------|------------|----------------------------------|-------------------------------------------------------|----------------|---------------------------|----------|------------------|----------|-------------------|----------------------------|-----------------------------------|------------------|--------|---------|--------|---------|--------|-----------------------|---------------------------------------------------------|
| Site:                                                                                  |                   |                                                   |           | Project No              |           |            |                                  |                                                       |                |                           |          |                  |          |                   |                            | 5                                 |                  |        | •       |        |         |        |                       | HM A<br>Arsenic                                         |
| 2 Mandala Pa                                                                           | rade, Cas         | tle Hill                                          |           | E24724.<br>E02          |           |            | t, etc.)                         | AHs<br>stos                                           | AHs            |                           |          |                  |          | ion               | change)                    | unductivity                       |                  |        |         |        |         |        |                       | Cadmium<br>Chromium<br>Copper<br>Lead                   |
| Laboratory:                                                                            | ALEXA             | stralia<br>33 Maddox<br>NDRIA NSW<br>94 0400 F: ( | 2015      | 499                     |           |            | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | HM <sup>A</sup> /TRH/BTEX |          |                  | S        | is Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite |        |         |        |         |        | HM <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM <sup>B</sup><br>Arsenic |
| Sample                                                                                 | Laboratory        |                                                   | S         | ampling                 | ER        | Ι.         | ERS                              | P/OF                                                  | ΑT             | A /T                      | X        | VOCs             | Asbestos | Asbestos          | / CE                       | / EC                              | vater            | sPOCAS | St      |        |         |        | CLP H                 | Cadmium<br>Chromium                                     |
| ID                                                                                     | ID                | Туре                                              | Date      | Time                    | WATER     | SOIL       | OTH                              | NH<br>NO<br>NO                                        | MH             | HN                        | BTEX     | 02               | Ast      | Ash               | Hq                         | Hd                                | Dev              | sP(    | PFAS    |        |         |        | TC                    | Lead<br>Mercury<br>Nickel                               |
| TP7_0.1-0.2                                                                            | 1                 | J/ZLB                                             | 8/7/20    | AM/PM                   |           | X          |                                  | X                                                     |                |                           |          |                  |          |                   | ×                          |                                   |                  |        |         |        |         |        |                       | Dewatering Suite                                        |
| TP7_0.6-0.7                                                                            |                   | 1                                                 | 1         | 1                       |           | X          |                                  |                                                       |                |                           |          |                  |          |                   |                            |                                   |                  |        |         |        |         |        |                       | pH & EC<br>TDS / Turbidity NTU<br>Hardness              |
| TP7_1.3-1.4                                                                            | 2                 |                                                   |           |                         |           | Х          |                                  | X                                                     |                |                           |          |                  |          |                   |                            |                                   |                  |        |         |        |         |        |                       | Total Cyanide<br>Metals (Al, As, Cd, Cr,                |
| TP8_0.1-0.2                                                                            | 3                 |                                                   |           |                         |           | X          |                                  | X                                                     |                |                           |          |                  |          |                   |                            |                                   |                  |        |         |        |         |        |                       | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)             |
| TP8_0.9-1.0                                                                            | 4                 |                                                   |           |                         |           | X          |                                  | X                                                     |                |                           |          |                  |          |                   |                            |                                   |                  |        |         |        |         |        |                       | BTEX<br>PAH<br>Total Phenol                             |
| TP9_0.1-0.2                                                                            | 5                 |                                                   |           |                         |           | X          |                                  | X                                                     |                |                           |          |                  |          |                   |                            |                                   |                  |        |         |        |         |        |                       | LABORATORY<br>TURNAROUND                                |
| TP9_1.2-1.3                                                                            | 6                 |                                                   |           |                         |           | x          |                                  | X                                                     | -              |                           |          |                  | · .      |                   | 1                          |                                   | +                |        |         | -      | -       |        |                       | Standard                                                |
| TP10_0.1-0.2                                                                           | 7                 |                                                   |           |                         |           | X          |                                  | X                                                     |                |                           |          |                  |          |                   | IS EF                      |                                   | •                | -      | oc      |        |         |        |                       | 24 Hours                                                |
| TP10_1.0-1.1                                                                           | 1                 |                                                   |           |                         | $\square$ | x          |                                  |                                                       |                |                           |          |                  |          | 5                 | E2                         | 30                                | 36:              | 5      |         |        |         |        |                       | 48 Hours                                                |
| TP11_0.1-0.2                                                                           | 8                 |                                                   |           |                         |           | X          |                                  | X                                                     |                |                           |          |                  |          | † ! <b>   </b>    |                            |                                   |                  |        |         |        |         |        |                       | 72 Hours                                                |
| TP11_0.8-0.9                                                                           | 9                 |                                                   |           |                         | $\square$ | x          |                                  | X                                                     |                |                           |          |                  |          | t                 |                            |                                   |                  |        |         |        |         |        |                       | Other                                                   |
| <br>TP12_0.1-0.2                                                                       | 10                | V                                                 | 1         |                         | $\vdash$  | x          |                                  | X                                                     |                |                           |          |                  |          |                   |                            |                                   |                  |        |         |        | 1       | _      |                       |                                                         |
| Container Type:<br>J= solvent washed, a<br>S= solvent washed, a<br>P= natural HDPE pla | cid rinsed,Te     |                                                   | luss jar  |                         | -         | 1          | stigate                          | or: I att                                             |                |                           |          | nples v<br>sampl |          |                   |                            | liccord                           | lance            | F      | Report  | with E | El Wast | e Clas | sificatio             | on Table                                                |
| VC= glass vial, Teflo<br>ZLB = Zip-Lock Bag                                            |                   |                                                   |           |                         |           | Sam<br>Pri | 1-4                              | lame (E                                               |                |                           |          | Rece             | eived by | (SGS)             | ):                         |                                   |                  | Sam    | npler's | Com    | ments:  |        |                       |                                                         |
| LED Lip Look Dug                                                                       |                   |                                                   |           |                         |           | 1          | L                                | i Wei                                                 |                |                           |          |                  | 2        | Sa                | bq                         |                                   |                  |        |         |        |         |        |                       |                                                         |
|                                                                                        |                   | 5                                                 |           | , 55 Miller S           |           | Sig        | nature (                         | in                                                    | Zi             | 5                         |          | Sigi             | nature   | A                 | buch                       | 4                                 |                  |        | •       |        |         |        |                       |                                                         |
| eiaus                                                                                  | trali             | -                                                 |           | 0NT NSW 20<br>9516 0722 | 109       | Dai        | te 13/                           | 7/20                                                  |                |                           |          | Date<br>3        | 6107     | 120               | 0                          | 3.                                | 30               |        |         |        |         |        |                       | 5                                                       |
|                                                                                        | ediation   Geotec | d                                                 |           | ustralia.com            | n.au      |            |                                  | TAN                                                   |                |                           |          |                  |          |                   |                            |                                   |                  | 1      |         |        |         |        |                       |                                                         |
|                                                                                        |                   |                                                   | COC March | 2018 FORM v.4 - SGS     |           | Plea       | ase e-                           | mail la                                               | borato         | ory res                   | sults to | a: lab(          | @eia     | ustra             | alla.c                     | om.a                              | u                |        |         |        |         |        |                       |                                                         |

roa: Sydney.odf page: 5 SGS Raf: SE206555\_COC

| Sheet 2 c                                                                              | of                                | _                                                 |             |                            | Sam       | nple N    | /latrix                          |                                                       |                |           |          |             |                        |                   | Ana                        | lysis                             |            |        |        |        |        |         |                       | Comments                                                |
|----------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------|-------------|----------------------------|-----------|-----------|----------------------------------|-------------------------------------------------------|----------------|-----------|----------|-------------|------------------------|-------------------|----------------------------|-----------------------------------|------------|--------|--------|--------|--------|---------|-----------------------|---------------------------------------------------------|
| Site:                                                                                  |                                   |                                                   |             | Project No:                |           |           |                                  | 1                                                     |                |           |          |             |                        |                   |                            | ()                                |            |        |        |        |        |         |                       | HM A<br>Arsenic                                         |
| 2 Mandala Pa                                                                           | rade, Cas                         | tle Hill                                          |             | E24724.<br>E02             |           |           | t, etc.)                         | AHs<br>stos                                           | AHs            |           |          |             |                        | ion               | change)                    | unductivity                       |            |        |        |        |        |         |                       | Cadmium<br>Chromium<br>Copper<br>Lead                   |
| Laboratory:                                                                            | ALEXAN                            | stralia<br>33 Maddox<br>NDRIA NSW<br>94 0400 F: 0 | 2015        | 199                        |           |           | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | /TRH/BTEX |          |             | Š                      | is Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | ing Suite  |        |        |        |        |         | HM <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM <sup>B</sup><br>Arsenic |
| Sample                                                                                 | Laboratory                        |                                                   | Sa          | ampling                    | ER        |           | ERS                              | P/OF                                                  | A              | HM A /T   | BTEX     | VOCs        | Asbestos               | Asbestos          | / CE(                      | /EC                               | Dewatering | sPOCAS | AS     |        |        |         | ٩                     | Cadmium<br>Chromium                                     |
| ID                                                                                     | ID                                | Туре                                              | Date        | Time                       | WATER     | SOIL      | OTH                              | NH O                                                  | MH             | HN        | BT       | NOV         | Asl                    | Asl               | Hq                         | Hd                                | Dev        | sP(    | PFAS   |        |        |         | TCL                   | Lead<br>Mercury<br>Nickel                               |
| TP12_0.8-0.9                                                                           | 11                                | J/ZLB                                             | 8/7/20      | AM/PM                      |           | X         | - 2                              | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | Dewatering Suite                                        |
| TP12_1.7-1.8                                                                           | 12                                | 1                                                 | 1           | 1                          |           | X         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | pH & EC<br>TDS / Turbidity NTU<br>Hardness              |
| TP13_0.1-0.2                                                                           | 13                                |                                                   |             |                            |           | X         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | Total Cyanide<br>Metals (Al, As, Cd, Cr,                |
| TP13_0.7-0.8                                                                           |                                   |                                                   |             |                            |           | X         |                                  |                                                       |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX     |
| TP13_1.2-1.3                                                                           | 14                                |                                                   |             |                            |           | X         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | PAH<br>Total Phenol                                     |
| TP13_2.0-2.1                                                                           | 15                                |                                                   |             |                            |           | X         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | LABORATORY<br>TURNAROUND                                |
| TP14_0.1-0.2                                                                           | 16                                |                                                   |             |                            |           | X         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | Standard                                                |
| TP14_1.0-1.1                                                                           |                                   |                                                   |             |                            |           | X         |                                  |                                                       |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | 24 Hours                                                |
| TP14_1.5-1.6                                                                           | 17                                |                                                   |             |                            |           | X         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | 48 Hours                                                |
| TP15_0.1-0.2                                                                           | 18                                |                                                   |             |                            | $\square$ | x         |                                  | ×                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | 72 Hours                                                |
| TP15_1.0-1.1                                                                           |                                   |                                                   |             |                            |           | x         |                                  |                                                       |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       | Other                                                   |
| <br>TP15_1.7-1.8                                                                       | 19                                |                                                   | V           | 1                          | $\vdash$  | x         |                                  | X                                                     |                |           |          |             |                        |                   |                            |                                   |            |        |        |        |        |         |                       |                                                         |
| Container Type:<br>J= solvent washed, a<br>S= solvent washed, a<br>P= natural HDPE pla | icid rinsed,Te<br>acid rinsed gla |                                                   | ass jar     |                            | -         | Inve      |                                  |                                                       | stand          |           |          |             | l<br>were c<br>ing pro |                   |                            | liccord                           | ance       | F      | Report | with E | I Wast | te Clas | sificati              | on Table                                                |
| VC= glass vial, Teflo<br>ZLB = Zip-Lock Bag                                            |                                   |                                                   |             |                            |           | Sam<br>Pr | 1                                | ame (El                                               | ):             |           |          | Rece<br>Pri | ived by                | (SGS)             | :                          |                                   |            | Sam    | pler's | Comr   | ments: |         |                       |                                                         |
|                                                                                        |                                   |                                                   |             |                            |           | 1         | L                                | i Wei                                                 | 2 /            |           |          |             | -                      | Su                | ba                         |                                   |            |        |        |        |        |         |                       |                                                         |
|                                                                                        |                                   | S                                                 |             | , 55 Miller S<br>NT NSW 20 |           |           |                                  | iv                                                    | re             |           |          |             | nature                 | SK                | Pu                         | he                                | 1          |        |        |        |        |         |                       |                                                         |
| eiaus                                                                                  | trali                             | 2                                                 |             | 9516 0722                  | 00        | Da        | 13/                              | 7/20                                                  |                |           |          | Dat         | 13                     | 07                | 20                         | C.                                | 3.3        | D      |        |        |        |         |                       |                                                         |
|                                                                                        | ediation   Geotec                 | hnical                                            | -           | ustralia.com               | n.au      |           |                                  | TAN                                                   |                |           |          | lab         | Quin                   | t                 | lie -                      |                                   |            |        |        |        |        |         |                       |                                                         |
|                                                                                        |                                   |                                                   | COC March 2 | 018 FORM v.4 - SGS         |           | Plea      | ase e-                           | mail lal                                              | oorato         | ory res   | sults to | a lab       | weia                   | ustra             | alla.c                     | om.a                              | u          |        |        |        |        |         |                       |                                                         |

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| Sheet 3 of                                                                              | 4                | _                                                 |           |                    | S     | ample | e Ma            | atrix                            |                                                       |                |             |          |                  |          |                  | Ana                        | lysis                             |                  |        |        |        |                                                     |         |                       | Comments                                            |
|-----------------------------------------------------------------------------------------|------------------|---------------------------------------------------|-----------|--------------------|-------|-------|-----------------|----------------------------------|-------------------------------------------------------|----------------|-------------|----------|------------------|----------|------------------|----------------------------|-----------------------------------|------------------|--------|--------|--------|-----------------------------------------------------|---------|-----------------------|-----------------------------------------------------|
| Site:                                                                                   |                  |                                                   |           | Project            | No:   |       |                 |                                  |                                                       |                |             |          |                  |          |                  |                            | (٨                                |                  |        |        |        |                                                     |         |                       | HM A<br>Arsenic                                     |
| 2 Mandala Par                                                                           | ade, Cas         | tle Hill                                          |           | E2472<br>E02       | 4.    |       |                 | it, etc.)                        | AHs<br>stos                                           | AHs            |             |          |                  |          | tion             | change)                    | onductivity                       |                  |        |        |        |                                                     |         |                       | Cadmium<br>Chromium<br>Copper<br>Lead               |
| Laboratory:                                                                             | ALEXAN           | stralia<br>33 Maddox<br>NDRIA NSW<br>94 0400 F: 0 | 2015      | 499                |       |       |                 | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | A /TRH/BTEX |          |                  | S        | s Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite | S      |        |        |                                                     |         | HM <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM <u>B</u><br>Arsenic |
| Sample                                                                                  | Laboratory       | Container                                         | S         | ampling            |       | WATER |                 | IERS                             | P/OF                                                  | A              | 1 A /T      | BTEX     | VOCs             | Asbestos | Asbestos         | / CE                       | /EC                               | wate             | sPOCAS | PFAS   |        |                                                     |         | CLP H                 | Cadmium<br>Chromium<br>Lead                         |
| ID                                                                                      | ID               | Туре                                              | Date      | Tir                | ne    | M     | SOIL            | OTH                              | 10<br>10                                              | MH             | HM          | BT       | VO               | As       | As               | Hd                         | Hd                                | De               | SР     | РЕ     |        |                                                     |         | TC                    | Mercury<br>Nickel                                   |
| TP16_0.1-0.2                                                                            | 20               | J/ZLB                                             | 8/7/20    | AM/                | PM    |       | x               |                                  | X                                                     |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | Dewatering Suite<br>pH & EC                         |
| TP16_1.3-1.4                                                                            |                  |                                                   |           |                    |       |       | x               |                                  |                                                       |                |             |          |                  |          |                  |                            |                                   |                  |        | •      |        | TDS / Turbidity NTU<br>Hardness                     |         |                       |                                                     |
| TP17_0.1-0.2                                                                            | 21               |                                                   |           |                    |       |       | X               |                                  | X                                                     |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        | Total Cyanide<br>Metals (Al, As, Cd, Cr,            |         |                       |                                                     |
| TP17_0.8-0.9                                                                            |                  |                                                   |           |                    |       |       | х               |                                  |                                                       |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX |         |                       |                                                     |
| TP18_0.1-0.2                                                                            | 22               |                                                   |           |                    |       |       | Х               |                                  | X                                                     |                |             |          |                  |          | -                |                            |                                   |                  |        |        |        | PAH<br>Total Phenol                                 |         |                       |                                                     |
| TP18_0.9-1.0                                                                            |                  |                                                   |           |                    |       |       | х               |                                  |                                                       |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | LABORATORY<br>TURNAROUND                            |
| TP18_1.8-1.9                                                                            | 23               |                                                   |           |                    |       |       | х               |                                  | X                                                     |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | Standard                                            |
| TP18_2.2-2.3                                                                            |                  |                                                   |           |                    |       |       | х               |                                  |                                                       |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | 24 Hours                                            |
| TP19_0.1-0.2                                                                            | 24               |                                                   |           |                    |       |       | х               |                                  | X                                                     |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | 48 Hours                                            |
| TP19_0.8-0.9                                                                            |                  |                                                   |           |                    |       |       | х               |                                  |                                                       |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | 72 Hours                                            |
| TP19_1.4-1.5                                                                            | 25               | 1                                                 | 1         | 1                  |       |       | X               |                                  | X                                                     |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       | Other                                               |
|                                                                                         |                  |                                                   |           |                    |       |       | x               |                                  |                                                       |                |             |          |                  |          |                  |                            |                                   |                  |        |        |        |                                                     |         |                       |                                                     |
| Container Type:<br>J= solvent washed, a<br>S= solvent washed, a<br>P= natural HDPE plas | cid rinsed gla   |                                                   | ss jar    |                    |       | Ir    | nvesti          | igato                            | or: I atto<br>with                                    |                |             |          | nples v<br>sampl |          |                  |                            | accord                            | ance             | F      | Report | with E | I Wast                                              | te Clas | sificati              | on Table                                            |
| VC= glass vial, Teflor<br>ZLB = Zip-Lock Bag                                            |                  |                                                   |           |                    |       | s     | Sample<br>Print |                                  | ame (El                                               | ):             |             |          | Rece<br>Prin     | ived by  |                  |                            |                                   |                  | Sam    | pler's | Com    | ments:                                              | :       |                       |                                                     |
| LED - Lip Look bug                                                                      |                  |                                                   |           |                    |       |       |                 | L                                | Wei                                                   |                |             |          |                  | -        | Su               | ba                         |                                   |                  |        |        |        |                                                     |         |                       |                                                     |
|                                                                                         |                  | S                                                 |           | , 55 Mille         |       | et,   |                 | ature                            | w                                                     | S              |             |          | Sigi             | nature   | A                | Sch                        | -1                                |                  |        |        |        |                                                     |         |                       |                                                     |
| eiaus                                                                                   | trali            | -                                                 |           | ONT NSV<br>9516 07 |       |       | Date            | 13/                              | 7/20                                                  |                |             |          | Dat              | 121      | 071              | 20                         | 0:                                | 3.3              | 5      |        |        |                                                     |         |                       |                                                     |
| Contamination   Rem                                                                     | diation   Geotec | d                                                 | lab@eia   | australia.         | com.a |       |                 |                                  | TAN                                                   |                |             |          |                  | <u> </u> |                  |                            |                                   |                  |        | •      |        |                                                     |         |                       |                                                     |
|                                                                                         |                  |                                                   | COC March | 2018 FORM v.4 - \$ | GS    | F     | Pleas           | e e-r                            | mail la                                               | borato         | ry res      | sults to | a: lab           | aeia     | ustra            | alla.c                     | om.a                              | u                |        |        |        |                                                     |         |                       |                                                     |

| Sheet 4 of                                                            | 4                         | -                                                    |             |            |             | Sam   | ple N        | latrix                           |                                                       |                |           |         |              |                   |                   | Ana                        | lysis                             |                  |        |        |        |                                          |                                                     |                       | Comments                                     |
|-----------------------------------------------------------------------|---------------------------|------------------------------------------------------|-------------|------------|-------------|-------|--------------|----------------------------------|-------------------------------------------------------|----------------|-----------|---------|--------------|-------------------|-------------------|----------------------------|-----------------------------------|------------------|--------|--------|--------|------------------------------------------|-----------------------------------------------------|-----------------------|----------------------------------------------|
| Site:                                                                 |                           |                                                      |             | Proj       | ject No:    |       |              |                                  |                                                       |                |           |         |              |                   |                   |                            | y)                                |                  |        | •      |        |                                          |                                                     |                       | HM A<br>Arsenic                              |
| 2 Mandala Par                                                         | ade, Cas                  | tle Hill                                             |             | E24<br>E02 | 4724.<br>2  |       |              | it, etc.)                        | AHs<br>stos                                           | AHs            |           |         |              |                   | tion              | change)                    | onductivit                        |                  |        |        |        |                                          |                                                     |                       | Cadmium<br>Chromium<br>Copper<br>Lead        |
| Laboratory:                                                           | ALEXA                     | stralia<br>33 Maddox 3<br>NDRIA NSW<br>94 0400 F: 03 | 2015        | 499        |             |       |              | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | /TRH/BTEX |         |              | S                 | os Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite | S      |        |        |                                          |                                                     | HM <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM B<br>Arsenic |
| Sample                                                                | Laboratory                | Container                                            | S           | amplin     | Ig          | WATER | _            | HERS                             | A A /                                                 |                | HM A /T   | втех    | VOCs         | Asbestos          | Asbestos          | I/CE                       | I/EC                              | wate             | sPOCAS | PFAS   |        |                                          |                                                     | CLP H                 | Cadmium<br>Chromium<br>Lead                  |
| ID                                                                    | ID                        | Туре                                                 | Date        |            | Time        | WA    | SOIL         | OTI                              | ΞŎ                                                    | WH             |           | BT      | >            | As                | As                | Hq                         | Hd                                | De               | ъ      | .д     |        |                                          |                                                     | TO                    | Mercury<br>Nickel                            |
| QD1                                                                   | 26                        | J                                                    | 8/7/2       | 0 A1       | //PM        |       | Х            |                                  |                                                       |                | ×         |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       | Dewatering Suite                             |
| QD2                                                                   | 27                        | J                                                    |             |            |             |       | Х            |                                  |                                                       |                | X         |         |              |                   |                   |                            |                                   |                  |        |        |        | TDS / Turbidity NTU<br>Hardness          |                                                     |                       |                                              |
| QR1                                                                   | 28                        | P,S,2Vc                                              |             |            |             | х     |              |                                  |                                                       |                | X         |         |              |                   |                   |                            |                                   |                  |        |        |        | Total Cyanide<br>Metals (AI, As, Cd, Cr, |                                                     |                       |                                              |
| QRB1                                                                  |                           | P,S,2Vc                                              | V           |            | V           | х     |              |                                  |                                                       |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX |                       |                                              |
| QTB1                                                                  | 29                        |                                                      |             |            |             |       | Х            |                                  |                                                       |                |           | ×       |              |                   |                   |                            |                                   |                  |        |        |        |                                          | PAH<br>Total Phenol                                 |                       |                                              |
| QTS1                                                                  | 30                        | La                                                   | o Prepa     | red        |             |       | х            |                                  |                                                       |                |           | X       |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       | LABORATORY<br>TURNAROUND                     |
| BH1-0.1-0.7                                                           | -31                       | JZLB                                                 | 8/7/        | 20         | Ampy        |       | ×            |                                  | ×                                                     |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       | Standard                                     |
| BH1-0.7-0.                                                            |                           | _                                                    | (           |            | (           |       | ×            |                                  | X                                                     |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       | 24 Hours                                     |
| BH1-1.4-1.5                                                           | -                         |                                                      |             |            | 6           |       | ×            |                                  |                                                       |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       | 48 Hours                                     |
|                                                                       |                           |                                                      | Ŭ           |            |             |       |              |                                  |                                                       |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       | 72 Hours                                     |
|                                                                       |                           |                                                      |             |            |             |       |              |                                  |                                                       |                |           |         |              |                   |                   |                            |                                   |                  |        | •      |        |                                          |                                                     |                       | Other                                        |
|                                                                       |                           |                                                      |             |            |             |       |              |                                  |                                                       |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       |                                              |
| Container Type:<br>J= solvent washed, aci<br>S= solvent washed, ac    | id rinsed gla             |                                                      | s jar       |            |             |       | Inves        | stigato                          | or: I atte<br>with                                    |                |           |         |              | were c<br>ing pro |                   |                            | ccord                             | ance             | F      | Report | with E | I Wast                                   | e Clas                                              | sificati              | on Table                                     |
| P= natural HDPE plast<br>VC= glass vial, Teflon<br>ZLB = Zip-Lock Bag |                           |                                                      |             |            |             |       | Samp<br>Prin | - 4                              | ame (El                                               | ):             |           |         | Rece<br>Prin | eived by          | (SGS)             | :                          |                                   |                  | Sam    | pler's | Comr   | ments:                                   |                                                     |                       |                                              |
| ZED - ZIP-LOOK Dag                                                    |                           |                                                      |             |            |             |       |              | L                                | Wei                                                   |                |           |         |              | n.                | S                 | she                        | 3                                 |                  |        |        |        |                                          |                                                     |                       |                                              |
|                                                                       |                           |                                                      |             |            | Miller Str  |       | Sigr         | nature                           |                                                       | 25             |           |         |              | nature            | 32                | Bu                         | L                                 | 1                |        |        |        |                                          |                                                     |                       |                                              |
| eiaus                                                                 | trali                     | -                                                    |             |            | NSW 200     | )9    | Date         | 13/                              | 7/20                                                  |                |           |         | Dat          | 310               | 1/20              | C                          | 3                                 | 30               |        |        |        |                                          |                                                     |                       |                                              |
|                                                                       | Lidli<br>Nation   Geotech | d                                                    |             |            | lia.com.    | au    |              |                                  | TANT                                                  |                |           |         |              |                   |                   |                            |                                   |                  |        |        |        |                                          |                                                     |                       |                                              |
|                                                                       |                           |                                                      | COC March 2 | 2018 FORM  | M v.4 - SGS |       | Plea         | se e-i                           | nail lat                                              | oorato         | ry res    | ults to | : lab(       | aeia              | ustra             | alla.c                     | om.a                              | u                |        |        |        |                                          |                                                     |                       |                                              |



| Contact                                               | Li Wei                                                                    |                | Manager                          | Huong Crawford                                          |                   |  |  |  |
|-------------------------------------------------------|---------------------------------------------------------------------------|----------------|----------------------------------|---------------------------------------------------------|-------------------|--|--|--|
| lient                                                 | EI AUSTRALIA                                                              |                | Laboratory                       | SGS Alexandria Envir                                    | ronmental         |  |  |  |
| Address                                               | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009                        |                | Address                          | Unit 16, 33 Maddox S<br>Alexandria NSW 2015             |                   |  |  |  |
| elephone                                              | 61 2 95160722                                                             |                | Telephone                        | +61 2 8594 0400                                         |                   |  |  |  |
| acsimile                                              | (Not specified)                                                           |                | Facsimile                        |                                                         |                   |  |  |  |
| Email                                                 | li.wei@eiaustralia.com.au                                                 |                | Email                            | au.environmental.sydney@sgs.com                         |                   |  |  |  |
| Project                                               | E24724.E02 2 Mandala Parad                                                | e, Castle Hill | Samples Received                 | Samples Received Mon 13/7/2020                          |                   |  |  |  |
| Order Number                                          | E24724.E02                                                                |                | Report Due                       | Mon 20/7/2020                                           |                   |  |  |  |
| Samples                                               | 32                                                                        |                | SGS Reference                    | SE208655                                                |                   |  |  |  |
|                                                       | ETAILS<br>n that 32 samples were received<br>rence SE208655 when making e |                | . Results are expected to be rea |                                                         | 7/2020. Please    |  |  |  |
| Samples clearly labelled<br>Sample container provider |                                                                           | Yes<br>SGS     | •                                | entation received                                       | Yes<br>Ice Bricks |  |  |  |
|                                                       |                                                                           |                |                                  | Sample cooling method Ice<br>Sample counts by matrix 31 |                   |  |  |  |

Sample container provider Samples received in correct containers Date documentation received Samples received in good order Sample temperature upon receipt Turnaround time requested Yes SGS Yes 13/7/2020 Yes 5.7°C Standard Complete documentation received Sample cooling method Sample counts by matrix Type of documentation received Samples received without headspace Sufficient sample for analysis Yes Ice Bricks 31 Soil, 1 Water COC Yes Yes

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS -

11 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

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#### CLIENT DETAILS

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| No. | Sample ID    | OC Pesticides in Soil | OP Pesticides in Soil | PAH (Polynuclear Aromatic<br>Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable<br>Elements in Soil/Waste | TRH (Total Recoverable<br>Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum<br>Hydrocarbons in Soil |
|-----|--------------|-----------------------|-----------------------|----------------------------------------------------|--------------|---------------------------------------------|-------------------------------------------------|---------------|--------------------------------------------|
| 001 | TP7_0.1-0.2  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 002 | TP7_1.3-1.4  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 003 | TP8_0.1-0.2  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 004 | TP8_0.9-1.0  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 005 | TP9_0.1-0.2  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 006 | TP9_1.2-1.3  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 007 | TP10_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 008 | TP11_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 009 | TP11_0.8-0.9 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 010 | TP12_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 011 | TP12_0.8-0.9 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 012 | TP12_1.7-1.8 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 013 | TP13_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 014 | TP13_1.2-1.3 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 015 | TP13_2.0-2.1 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 016 | TP14_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 017 | TP14_1.5-1.6 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 018 | TP15_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 019 | TP15_1.7-1.8 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 020 | TP16_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 021 | TP17_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 022 | TP18_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 023 | TP18_1.8-1.9 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 024 | TP19_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |

CONTINUED OVERLEAF

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

The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details .

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



#### CLIENT DETAILS

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| - SUMMARY | OF ANALYSIS  |                       |                       |                                                    |              |                                             |                                                 | 1             |                                            |
|-----------|--------------|-----------------------|-----------------------|----------------------------------------------------|--------------|---------------------------------------------|-------------------------------------------------|---------------|--------------------------------------------|
| No.       | Sample ID    | OC Pesticides in Soil | OP Pesticides in Soil | PAH (Polynuclear Aromatic<br>Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable<br>Elements in Soil/Waste | TRH (Total Recoverable<br>Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum<br>Hydrocarbons in Soil |
| 025       | TP19_1.4-1.5 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 026       | QD1          | -                     | -                     | -                                                  | -            | 7                                           | 10                                              | 11            | 7                                          |
| 027       | QD2          | -                     | -                     | -                                                  | -            | 7                                           | 10                                              | 11            | 7                                          |
| 029       | QTB1         | -                     | -                     | -                                                  | -            | -                                           | -                                               | 11            | -                                          |
| 030       | QTS1         | -                     | -                     | -                                                  | -            | -                                           | -                                               | 11            | -                                          |
| 031       | BH1_0.1-0.2  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 032       | BH1_0.7-0.8  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |

CONTINUED OVERLEAF

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



CLIENT DETAILS

Client EI AUSTRALIA

SUMMARY OF ANALYSIS

Project E24724.E02 2 Mandala Parade, Castle Hill

| No. | Sample ID    | Fibre Identification in soil | Mercury in Soil | Moisture Content |
|-----|--------------|------------------------------|-----------------|------------------|
| 001 | TP7_0.1-0.2  | 2                            | 1               | 1                |
| 002 | TP7_1.3-1.4  | 2                            | 1               | 1                |
| 003 | TP8_0.1-0.2  | 2                            | 1               | 1                |
| 004 | TP8_0.9-1.0  | 2                            | 1               | 1                |
| 005 | TP9_0.1-0.2  | 2                            | 1               | 1                |
| 006 | TP9_1.2-1.3  | 2                            | 1               | 1                |
| 007 | TP10_0.1-0.2 | 2                            | 1               | 1                |
| 008 | TP11_0.1-0.2 | 2                            | 1               | 1                |
| 009 | TP11_0.8-0.9 | 2                            | 1               | 1                |
| 010 | TP12_0.1-0.2 | 2                            | 1               | 1                |
| 011 | TP12_0.8-0.9 | 2                            | 1               | 1                |
| 012 | TP12_1.7-1.8 | 2                            | 1               | 1                |
| 013 | TP13_0.1-0.2 | 2                            | 1               | 1                |
| 014 | TP13_1.2-1.3 | 2                            | 1               | 1                |
| 015 | TP13_2.0-2.1 | 2                            | 1               | 1                |
| 016 | TP14_0.1-0.2 | 2                            | 1               | 1                |
| 017 | TP14_1.5-1.6 | 2                            | 1               | 1                |
| 018 | TP15_0.1-0.2 | 2                            | 1               | 1                |
| 019 | TP15_1.7-1.8 | 2                            | 1               | 1                |
| 020 | TP16_0.1-0.2 | 2                            | 1               | 1                |
| 021 | TP17_0.1-0.2 | 2                            | 1               | 1                |
| 022 | TP18_0.1-0.2 | 2                            | 1               | 1                |
| 023 | TP18_1.8-1.9 | 2                            | 1               | 1                |
| 024 | TP19_0.1-0.2 | 2                            | 1               | 1                |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details .

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



#### CLIENT DETAILS

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| _ | SUMMARY | OF ANALYSIS  |                              |                 |                  |               |  |
|---|---------|--------------|------------------------------|-----------------|------------------|---------------|--|
|   | No.     | Sample ID    | Fibre Identification in soil | Mercury in Soil | Moisture Content | VOCs in Water |  |
|   | 025     | TP19_1.4-1.5 | 2                            | 1               | 1                | -             |  |
|   | 026     | QD1          | -                            | 1               | 1                | -             |  |
|   | 027     | QD2          | -                            | 1               | 1                | -             |  |
|   | 028     | QR1          | -                            | -               | -                | 11            |  |
|   | 029     | QTB1         | -                            | -               | 1                | -             |  |
|   | 031     | BH1_0.1-0.2  | 2                            | 1               | 1                | -             |  |
|   | 032     | BH1_0.7-0.8  | 2                            | 1               | 1                | -             |  |

CONTINUED OVERLEAF



#### CLIENT DETAILS

Client EI AUSTRALIA

SUMMARY OF ANALYSIS

-

Project E24724.E02 2 Mandala Parade, Castle Hill

| No. | Sample ID | Mercury (dissolved) in<br>Water | Trace Metals (Dissolved)<br>in Water by ICPMS | TRH (Total Recoverable<br>Hydrocarbons) in Water | Volatile Petroleum<br>Hydrocarbons in Water |
|-----|-----------|---------------------------------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------|
| 028 | QR1       | 1                               | 7                                             | 9                                                | 7                                           |

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

| Sheet o                                                                                                                                    | f                           | _                                                 |                           |                                                          | Sam      | nple N     | <i>Aatrix</i>                    | :<br>:                                                                                 |                                |                           |      |             |          |                         | Ana                        | lysis                                |                  |              |                         |                                                       |   |                       | Comments                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------|---------------------------|----------------------------------------------------------|----------|------------|----------------------------------|----------------------------------------------------------------------------------------|--------------------------------|---------------------------|------|-------------|----------|-------------------------|----------------------------|--------------------------------------|------------------|--------------|-------------------------|-------------------------------------------------------|---|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site:<br>2 Manda<br>Cas                                                                                                                    | la par<br>tie t             | ade,<br>iU                                        |                           | Project No:<br>Ezq7zq<br>Eoz                             |          |            | etc.)                            | NHs<br>OS                                                                              | Hs                             |                           |      |             |          | и                       | nange)                     | nductivity)                          |                  |              |                         |                                                       |   |                       | HMA<br>Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead                                                                                                              |
| Laboratory:                                                                                                                                | Envirol<br>12 Ash<br>CHATS  | lab Service<br>ley Street,<br>WOOD NS<br>910 6200 |                           |                                                          |          |            | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos                                  | HM <sup>≜</sup> /TRH/BTEX/PAHs | HM <sup>A</sup> /TRH/BTEX |      |             | S        | Asbestos Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity)    | Dewatering Suite | م            |                         |                                                       | - | HM <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM <u>B</u><br>Arsenic                                                                                                                  |
| Sample<br>ID                                                                                                                               | Laboratory<br>ID            | Container<br>Type                                 | Sa<br>Date                | ampling<br>                                              | WATER    | SOIL       | OTHERS                           | HM <sup>≜</sup> /<br>OCP/OI                                                            | НМ <sup>≜</sup> /Т             | HM ≜ /T                   | втех | vocs        | Asbestos | Asbesto                 | pH / CE                    | pH / EC                              | Dewate           | sPOCAS       | PFAS                    |                                                       |   | TCLP H                | Cadmium<br>Chromium<br>Lead<br>Mercury                                                                                                                               |
| O-TI                                                                                                                                       | 1                           | J                                                 | 8/7/                      | 20 ANP                                                   | m        | X          |                                  |                                                                                        |                                | X                         |      |             |          |                         |                            |                                      |                  |              |                         |                                                       |   |                       | Nickel Dewatering Suite                                                                                                                                              |
| QT2                                                                                                                                        | 2                           |                                                   |                           |                                                          |          | X          |                                  |                                                                                        |                                | ×                         |      |             |          |                         |                            |                                      |                  |              |                         |                                                       |   |                       | pH & EC<br>TDS / Turbidity NTU<br>Hardness<br>Total Cyanide<br>Metals (AI, As, Cd, Cr,<br>Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX<br>PAH<br>Total Phenol |
|                                                                                                                                            |                             |                                                   |                           |                                                          |          | •.         |                                  |                                                                                        |                                |                           |      |             |          |                         |                            | e<br>Joi                             | nia<br><u>I</u>  | °∩hai<br>VH  | swood<br>m: (02)<br>686 | <u>Services</u><br>Ashler St<br>NSW 2007<br>9910 6200 |   |                       | LABORATORY<br>TURNAROUND                                                                                                                                             |
|                                                                                                                                            |                             |                                                   |                           |                                                          |          |            |                                  |                                                                                        |                                |                           |      |             |          |                         |                            | Dar<br>Dar<br>Ror<br>Ter<br>Co<br>Se | e ni i           | ived:<br>Sy: | 16                      | p.2                                                   |   |                       | 48 Hours     72 Hours     Other                                                                                                                                      |
| Container Type:<br>J= solvent washed, ac<br>S= solvent washed, ac<br>P= natural HDPE plast<br>VC= glass vial, Teflon<br>ZLB = Zip-Lock Bag | id rinsed gla<br>lic bottle | lon sealed, glaa<br>iss bottle                    | lss jar                   |                                                          | <b>l</b> | Sam        | oler's N                         | or: I atte<br>with<br>ame (EI)                                                         | stand                          |                           |      | sampl       | ing pro  | ocedu                   | res.                       |                                      | ance             |              |                         | with El Wa                                            |   | sificati              | on Table                                                                                                                                                             |
| Contamonation / Remete                                                                                                                     | tralia                      | a                                                 | PYRMO<br>Ph: 9<br>lab@eia | 55 Miller St<br>NT NSW 200<br>9516 0722<br>Jstralia.com. | 09       | Dat<br>IMF | nature<br>e (POR                 | いし<br>(テレ<br>(テレ<br>(ア)<br>(ア)<br>(ア)<br>(ア)<br>(ア)<br>(ア)<br>(ア)<br>(ア)<br>(ア)<br>(ア) | 120<br>- 120                   | ) .                       |      | Sigi<br>Dat | 15/      | Jt<br>7/2               |                            | J<br>1610                            |                  |              |                         |                                                       |   |                       |                                                                                                                                                                      |



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

### SAMPLE RECEIPT ADVICE

| Client Details |              |
|----------------|--------------|
| Client         | El Australia |
| Attention      | Lab Email    |

| Sample Login Details                 |                          |
|--------------------------------------|--------------------------|
| Your reference                       | E24724. E02, Castle Hill |
| Envirolab Reference                  | 246861                   |
| Date Sample Received                 | 13/07/2020               |
| Date Instructions Received           | 13/07/2020               |
| Date Results Expected to be Reported | 20/07/2020               |

| Sample Condition                                       |          |
|--------------------------------------------------------|----------|
| Samples received in appropriate condition for analysis | Yes      |
| No. of Samples Provided                                | 2 Soil   |
| Turnaround Time Requested                              | Standard |
| Temperature on Receipt (°C)                            | 10.2     |
| Cooling Method                                         | Ice Pack |
| Sampling Date Provided                                 | YES      |

Comments Nil

Please direct any queries to:

| Aileen Hie                   | Jacinta Hurst                  |  |  |  |  |  |  |  |  |
|------------------------------|--------------------------------|--|--|--|--|--|--|--|--|
| Phone: 02 9910 6200          | Phone: 02 9910 6200            |  |  |  |  |  |  |  |  |
| Fax: 02 9910 6201            | Fax: 02 9910 6201              |  |  |  |  |  |  |  |  |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |  |  |  |  |  |  |  |  |

Analysis Underway, details on the following page:



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| Sample ID | VTRH(C6-C10)/BTEXN in Soil | svTRH (C10-C40) in Soil | Acid Extractable metalsin soil |  |
|-----------|----------------------------|-------------------------|--------------------------------|--|
| QT1       | $\checkmark$               | $\checkmark$            | $\checkmark$                   |  |
| QT2       | $\checkmark$               | $\checkmark$            | $\checkmark$                   |  |

The ' $\checkmark$ ' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

### **Additional Info**

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

| Sheet 1 or                                                                                | 3                                                                                            | _                                                 |        |                 | San          | nple N      | /latrix             |                                                       |                |           |         |       |                  |                  | Ana                 | alysis                            |                  |        |                         |         |        |          |           | Comments                                                |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------|--------|-----------------|--------------|-------------|---------------------|-------------------------------------------------------|----------------|-----------|---------|-------|------------------|------------------|---------------------|-----------------------------------|------------------|--------|-------------------------|---------|--------|----------|-----------|---------------------------------------------------------|
| Site:                                                                                     |                                                                                              |                                                   |        | Project No      | :            |             |                     |                                                       | 1 x            |           |         |       |                  |                  |                     |                                   |                  |        |                         |         |        |          |           | нмА                                                     |
| 2 Mandala Par                                                                             | rade, Cas                                                                                    | tle Hill                                          |        | E24724.<br>E02  |              |             | t, etc.)            | AHs<br>tos                                            | AHs            |           |         |       |                  | ion              | hange)              | nductivity                        |                  |        |                         |         |        | ×        |           | Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead        |
| Laboratory:                                                                               | ALEXAN                                                                                       | stralia<br>33 Maddox<br>NDRIA NSW<br>94 0400 F: 0 | 2015   | 499             |              |             | (i.e. Fibro, Paint, | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | /TRH/BTEX |         |       | WH/s             | s Quantification | C (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite |        |                         |         |        |          | MB/PAH    | Mercury<br>Nickel<br>Zinc<br>HM <sup>B</sup><br>Arsenic |
| Sample<br>ID                                                                              | Laboratory<br>ID                                                                             | Container<br>Type                                 | Date   | ampling<br>Time | WATER        | SOIL        | OTHERS (i.e.        | HM A /                                                | HM A /T        | HM A /T   | BTEX    | VOCs  | Asbestos         | Asbestos         | pH / CEC            | H / EC                            | Dewater          | sPOCAS | PFAS                    |         |        |          | CLP HM    | Cadmium<br>Chromium<br>Lead                             |
|                                                                                           | 1                                                                                            | J/ZLB                                             | 9/7/20 |                 | +            | X           | 0                   | X                                                     | -              | -         |         | -     | -                |                  |                     | <u> </u>                          |                  | 05     | <u> </u>                |         |        |          |           | Nickel                                                  |
| BH2_0.1-0.2<br>BH2_0.7-0.8                                                                |                                                                                              |                                                   |        |                 |              | X           |                     |                                                       |                |           |         |       |                  | ,                |                     |                                   |                  |        |                         |         |        |          |           | Dewatering Suite<br>pH & EC<br>TDS / Turbidity NTU      |
| BH2_1.2-1.3                                                                               | 2                                                                                            |                                                   |        |                 |              | X           |                     |                                                       | Х              |           |         |       |                  |                  |                     |                                   |                  |        |                         |         |        |          |           | Hardness<br>Total Cyanide<br>Metals (Al, As, Cd, C      |
| BH2_1.6-1.7                                                                               | 3                                                                                            |                                                   |        |                 |              | X           |                     | X                                                     | /              |           |         | 4     |                  |                  |                     |                                   |                  |        | 49.5-<br>19.5-<br>19.5- |         |        |          |           | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX     |
| BH2_1.9-2.0                                                                               |                                                                                              | J                                                 |        |                 |              | X           |                     |                                                       |                |           |         |       | - A              |                  |                     |                                   |                  |        |                         |         |        | 63.5     |           | PAH<br>Total Phenol                                     |
| BH2_2.4-2.5                                                                               |                                                                                              | J/ZLB                                             |        |                 |              | X           |                     |                                                       |                |           |         |       | 1                |                  |                     |                                   |                  |        |                         |         |        |          |           | LABORATORY                                              |
| BH2_2.9-3.0                                                                               |                                                                                              | J                                                 | 2      | J               |              | X           |                     |                                                       |                |           |         |       |                  |                  | à                   |                                   |                  |        |                         | COC     |        |          |           | Standard                                                |
| BH3M_0.1-0.2                                                                              | 4                                                                                            | ZLB                                               | 13/7/2 | 0 AM/PI         |              | X           |                     | ,                                                     |                |           |         |       | $\mathbf{X}_{i}$ |                  |                     | sgs<br>SE                         |                  |        |                         |         |        |          |           | 24 Hours                                                |
| BH3M_0.7-0.8                                                                              | 5                                                                                            | J/ZLB                                             |        |                 |              | X           |                     | X                                                     | ۶.             | · ·       |         |       |                  | 1                |                     |                                   |                  |        |                         |         |        | IN HEIER |           | 48 Hours                                                |
| BH3M_1.2-1.3                                                                              |                                                                                              | 1                                                 |        |                 |              | X           |                     |                                                       |                |           |         |       |                  |                  |                     |                                   |                  |        |                         |         |        |          |           | 72 Hours                                                |
| BH3M_1.7-1.8                                                                              | 6                                                                                            |                                                   |        |                 |              | X           |                     | Х                                                     |                |           |         |       |                  |                  |                     |                                   |                  |        |                         | •       |        |          | •         | Other                                                   |
| BH3M_2.2-2.3                                                                              |                                                                                              | V                                                 | J      | 9               |              | X           |                     |                                                       |                |           |         |       |                  |                  |                     |                                   |                  |        |                         |         |        |          | É - J     |                                                         |
| Container Type:<br>J= solvent washed, ac<br>S= solvent washed, ac<br>P= natural HDPE plas | id rinsed gla                                                                                |                                                   | ss jar |                 |              | Inves       | stigato             | r: I atte<br>with                                     |                |           |         |       | vere co          |                  |                     | iccorda                           | ance             | F      | Report                  | with El | l Wast | e Clas   | sificatio | on Table                                                |
| VC= glass vial, Teflon<br>ZLB = Zip-Lock Bag                                              |                                                                                              |                                                   |        |                 |              | Samp<br>Pri | -1                  | ame (El)                                              | :              |           | -       | Recei | ived by          |                  |                     |                                   |                  | Sam    | pler's                  | Comn    | nents: |          | 1.        |                                                         |
| 12                                                                                        |                                                                                              |                                                   |        |                 |              |             | L1<br>nature        | -                                                     | ~~             | 5         |         | 60    | ature            | hi               | Zhi                 |                                   |                  |        |                         |         |        |          |           |                                                         |
| eiaus                                                                                     | trali                                                                                        | .au                                               | IMF    | _               | 7/20<br>FANT | ;           |                     |                                                       |                | 1         | 71      | 7     | 3                | - 35             |                     |                                   |                  |        |                         |         |        |          |           |                                                         |
| Contamination   Reme                                                                      | ontamination   Remediation   Geotechnical lab@eiaustralia.com<br>COC March 2018 FORM v.4-SGS |                                                   |        |                 |              |             |                     | nail lab                                              | orato          | ry resi   | ults to | lab(  | @eia             | ustra            | lia.co              | om.a                              | u                |        |                         |         |        |          |           |                                                         |

source: Sydney.pdf page: 1 SGS Ref. SE208848\_COC

| Sheet 2 of                                     | 3                                                                                                                 | -     |         |      |      |                      |     | Oan          | pie n      | Atrix               | L                                          |                    |           |               |               |                   |                         | Ana                        | lysis                             |                  |          |          |         |       |       |                      | Comments                                                |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------|---------|------|------|----------------------|-----|--------------|------------|---------------------|--------------------------------------------|--------------------|-----------|---------------|---------------|-------------------|-------------------------|----------------------------|-----------------------------------|------------------|----------|----------|---------|-------|-------|----------------------|---------------------------------------------------------|
| Site:<br>2 Mandala Par                         | ade, Cas                                                                                                          | tle H | ill     |      | E    | roject<br>2472<br>02 |     |              |            | ıt, etc.)           | AHs<br>stos                                | AHs                |           |               |               |                   | tion                    | change)                    | onductivity)                      |                  |          |          |         |       |       |                      | HMA<br>Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead |
| Laboratory:                                    | SGS Au<br>Unit 16,<br>ALEXAN<br>P: 02 85                                                                          | 33 M  | addox a | 2015 |      | )                    |     |              |            | (i.e. Fibro, Paint, | HM A /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs     | /TRH/BTEX |               |               | S                 | Asbestos Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite |          |          |         |       |       | M <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM B<br>Arsenic            |
| Sample                                         | Laboratory                                                                                                        |       | tainer  | -    | Samp | ling                 |     | WATER        |            | OTHERS (            | P/OF                                       | HM <sup>A</sup> /T | HM A /T   | ШX            | VOCs          | Asbestos          | oesto                   | / CE(                      | /EC                               | water            | sPOCAS   | AS       |         |       |       | LP HM                | Cadmium<br>Chromium                                     |
| ID                                             | ID                                                                                                                |       | уре     | D    | ate  | Tir                  | ne  | WA-          | SOIL       | 10                  | ΞÖ                                         | HN                 | ₹<br>N    | BTEX          | 2             | Asl               | Asl                     | Hd                         | Hd                                | Der              | sP(      | PFAS     |         |       |       | TCLP                 | Lead<br>Mercury<br>Nickel                               |
| BH3M_2.8-2.9                                   | 7                                                                                                                 | J/ZL  | В       | 13/7 | /20  | AM,                  | /PM |              | Х          |                     | X                                          |                    |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | Dewatering Suite                                        |
| BH4M_0.3-0.5                                   | 8                                                                                                                 |       |         | 14/7 | /20  | AM                   | /PM |              | Х          |                     | X                                          |                    |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | pH & EC<br>TDS / Turbidity NTU<br>Hardness              |
| BH4M_0.9-1.0                                   |                                                                                                                   |       |         |      |      | 1                    |     |              | х          |                     |                                            |                    |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | Total Cyanide<br>Metals (Al, As, Cd, Cr,                |
| BH4M_1.4-1.5                                   | 9                                                                                                                 | 9     | IJ      |      |      |                      |     |              | х          |                     |                                            | X                  |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX     |
| BH4M_1.9-2.0                                   |                                                                                                                   | 2J/Z  | ĽB      |      |      |                      |     |              | х          |                     |                                            |                    |           |               |               |                   |                         |                            |                                   |                  | •        |          |         |       |       |                      | PAH<br>Total Phenol                                     |
| BH4M_2.4-2.5                                   |                                                                                                                   | J     |         |      |      |                      |     |              | х          |                     |                                            |                    |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | LABORATORY                                              |
| BH4M_2.9-3.0                                   | 0                                                                                                                 | J/ZL  | В       |      |      |                      |     |              | х          |                     | X                                          |                    |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | X Standard                                              |
| BH4M_3.9-4.0                                   |                                                                                                                   | 1     |         |      |      |                      |     |              | х          |                     |                                            |                    |           |               | *             |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | 24 Hours                                                |
| BH4M_4.4-4.5                                   |                                                                                                                   | J     | 1       |      |      |                      |     |              | х          |                     |                                            |                    | 1         |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | 48 Hours                                                |
| BH4M_4.6-4.7                                   |                                                                                                                   | J     |         |      |      |                      |     |              | х          |                     |                                            |                    |           |               |               |                   |                         |                            | -                                 |                  | •        |          |         |       |       |                      | 72 Hours                                                |
| BH4M_4.9-5.0                                   | 11                                                                                                                | J/ZL  | В       | *    | 1    |                      | IJ  |              | х          |                     | •                                          | X                  |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | Other                                                   |
| BH5M_ Q -0.7                                   | 12                                                                                                                | J     | (       | 16/7 | /20  | AM                   | PM  |              | х          |                     | X                                          |                    |           |               |               |                   |                         |                            |                                   |                  |          |          |         |       |       |                      | _                                                       |
|                                                | ntainer Type:<br>solvent washed, acid rinsed,Teflon sealed, glass jar<br>solvent washed, acid rinsed glass bottle |       |         |      |      |                      |     |              | Inves      | tigato              |                                            |                    |           |               |               | vere c<br>ing pro |                         |                            | ccorda                            | ance             | R        | leport v | vith El | Waste | Class | sificatio            | on Table                                                |
| VC= glass vial, Teflon S<br>ZLB = Zip-Lock Bag | C= glass vial, Teflon Septum                                                                                      |       |         |      |      |                      |     | Samp<br>Prir |            | wei                 | ):                                         |                    |           | Recei<br>Prir | ived by<br>nt | (SGS):            | 7,                      |                            |                                   | Sam              | pler's ( | Comm     | ents:   |       |       |                      |                                                         |
| 120                                            | eiaustralia<br>Buite 6.01, 55 Miller S<br>PYRMONT NSW 20<br>Ph: 9516 0722<br>Iab@eiaustralia.com                  |       |         |      |      | 200                  |     | Sign<br>Date | ature<br>( |                     | N                                          | -                  | -         |               |               | ie<br>nie<br>71   | 2h,<br>7                | 3                          | 25                                |                  |          |          |         |       |       |                      |                                                         |

| Sheet 3 of 3     Sample Matrix     Analysis                                                   |                 |                                                   |         |                |        |             |                     |                                                       |                | Comments  |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       |                                                         |
|-----------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------|---------|----------------|--------|-------------|---------------------|-------------------------------------------------------|----------------|-----------|---------|-------------------|----------|------------------|---------------------|-----------------------------------|------------------|--------|--------|--------|--------|--------|-----------------------|---------------------------------------------------------|
| Site:                                                                                         |                 |                                                   |         | Project No     | :      |             |                     |                                                       |                |           |         |                   |          |                  |                     | -                                 |                  |        |        |        |        |        |                       | HM A<br>Arsenic                                         |
| 2 Mandala Par                                                                                 | ade, Cas        | tle Hill                                          |         | E24724.<br>E02 |        |             | ıt, etc.)           | AHs<br>stos                                           | AHs            |           |         |                   |          | tion             | change)             | onductivity                       |                  |        |        |        |        |        |                       | Cadmium<br>Chromium<br>Copper<br>Lead                   |
| Laboratory:                                                                                   | ALEXAN          | stralia<br>33 Maddox<br>NDRIA NSW<br>94 0400 F: 0 | 2015    | 199            |        |             | (i.e. Fibro, Paint, | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | /TRH/BTEX |         |                   | S        | s Quantification | C (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite |        |        |        |        |        | HM <sup>B</sup> / PAH | Mercury<br>Nickel<br>Zinc<br>HM <sup>B</sup><br>Arsenic |
| Sample                                                                                        | Laboratory      | Container                                         | Sa      | mpling         | WATER  |             | OTHERS (i.e.        | AN                                                    |                | A         | BTEX    | VOCs              | Asbestos | Asbestos         | pH / CEC            | / EC                              | water            | sPOCAS | PFAS   |        |        |        | CLP H                 | Cadmium<br>Chromium<br>Lead                             |
| ID                                                                                            | ID              | Туре                                              | Date    | Time           | WA.    | SOIL        | to                  | OCF                                                   | MH             | HM        | BT      | >                 | As       | As               | Fd                  | Hd                                | De               | sР     | Ч      |        |        |        | 10                    | Mercury<br>Nickel                                       |
| BH5M_0.5-0.6                                                                                  |                 | J/ZLB                                             | 16/7/20 | AM/P           | M      | Х           |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | Dewatering Suite<br>pH & EC                             |
| BH5M_1.0-1.1                                                                                  |                 |                                                   |         |                |        | X           |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | TDS / Turbidity NTU<br>Hardness                         |
| BH5M_1.5-1.6                                                                                  | 13              | 1                                                 |         |                |        | X           |                     |                                                       | X              |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | Total Cyanide<br>Metals (Al, As, Cd, Cr,                |
| BH5M_1.8-1.9                                                                                  |                 | J                                                 |         |                |        | X           |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX     |
| BH5M_1.9-2.0                                                                                  | 14              | J/ZLB                                             | 1       |                |        | x           |                     | X                                                     |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | PAH<br>Total Phenol                                     |
|                                                                                               |                 |                                                   |         |                |        |             |                     |                                                       |                |           |         | ×                 |          |                  |                     |                                   |                  |        |        |        |        |        |                       | LABORATORY                                              |
|                                                                                               |                 |                                                   |         |                |        |             |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        | -                     | x Standard                                              |
|                                                                                               |                 |                                                   |         |                | $\top$ |             |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | 24 Hours                                                |
|                                                                                               |                 |                                                   |         |                |        |             |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        |        |                       | 48 Hours                                                |
|                                                                                               |                 |                                                   |         |                | +      |             |                     |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        |        | -      |                       |                                                         |
|                                                                                               |                 |                                                   |         |                | +      | -           | -                   |                                                       |                |           |         |                   |          |                  |                     |                                   |                  |        |        |        | -      |        |                       | 72 Hours                                                |
|                                                                                               |                 |                                                   |         |                | +      | -           | -                   |                                                       |                |           |         |                   | -        |                  |                     |                                   |                  |        |        |        |        |        |                       | Other                                                   |
| Container Type:<br>J= solvent washed, aci<br>S= solvent washed, aci<br>P= natural HDPE plasti | d rinsed gla    |                                                   | is jar  |                |        | Inve        | stigato             | or: I atte                                            |                |           |         | nples v<br>sampli |          |                  |                     | ccord                             | ance             | ۰F     | Report | with E | l Wast | e Clas | sificati              | on Table                                                |
| VC= glass vial, Teflon S<br>ZLB = Zip-Lock Bag                                                |                 |                                                   |         |                |        |             |                     | ame (EI)                                              |                |           |         |                   | ived by  | (SGS)            |                     |                                   |                  | Sam    | pler's | Com    | ments: |        |                       |                                                         |
| ZEB - ZIP-LOCK Bag                                                                            |                 |                                                   |         |                |        |             |                     | Wei                                                   |                |           |         |                   | 9-191    | ze               | 24                  | ì                                 |                  |        |        |        |        |        |                       |                                                         |
| 12                                                                                            |                 |                                                   |         | 55 Miller S    |        | Sigi<br>Dat | nature              | 2                                                     | V              |           |         | Sign<br>Date      |          | M                | i                   |                                   |                  |        |        |        |        |        |                       |                                                         |
| AIRIO                                                                                         | rali            | 2                                                 | Ph: 9   | 516 0722       |        |             | 17/                 | 7/20                                                  | -              |           |         | Dale              | (-       | 117              |                     | 7.                                | 35               |        |        |        |        |        |                       |                                                         |
| Contamination   Remed                                                                         | ation   Geotech | nicăl                                             | -       | Istralia.con   | n.au   |             |                     | TANT<br>mail lat                                      |                | rv res    | ults to | · lab@            | Deia     | ustra            | alia.co             | om.a                              | u                |        |        |        |        |        |                       |                                                         |



| CLIENT DETAIL | S                                                  | LABORATORY DETA  | NILS                                         |
|---------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact       | Li Wei                                             | Manager          | Huong Crawford                               |
| Client        | EIAUSTRALIA                                        | Laboratory       | SGS Alexandria Environmental                 |
| Address       | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone     | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile     | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email         | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project       | E24724.E02 2 Mandala Parade, Castle Hill           | Samples Received | Fri 17/7/2020                                |
| Order Number  | E24724.E02                                         | Report Due       | Fri 24/7/2020                                |
| Samples       | 14                                                 | SGS Reference    | SE208846                                     |

- SUBMISSION DETAILS

This is to confirm that 14 samples were received on Friday 17/7/2020. Results are expected to be ready by COB Friday 24/7/2020. Please quote SGS reference SE208846 when making enquiries. Refer below for details relating to sample integrity upon receipt.

- Samples clearly labelled Sample container provider Samples received in correct containers Date documentation received Samples received in good order Sample temperature upon receipt Turnaround time requested
- Yes SGS Yes 17/7/2020 Yes 14°C Standard

Complete documentation received Sample cooling method Sample counts by matrix Type of documentation received Samples received without headspace Sufficient sample for analysis Yes Ice Bricks 14 Soil COC Yes Yes

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS -

16 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

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#### CLIENT DETAILS

Client EI AUSTRALIA

- SUMMARY OF ANALYSIS -

Project E24724.E02 2 Mandala Parade, Castle Hill

| No. | Sample ID    | OC Pesticides in Soil | OP Pesticides in Soil | PAH (Polynuclear Aromatic<br>Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable<br>Elements in Soil/Waste | TRH (Total Recoverable<br>Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum<br>Hydrocarbons in Soil |
|-----|--------------|-----------------------|-----------------------|----------------------------------------------------|--------------|---------------------------------------------|-------------------------------------------------|---------------|--------------------------------------------|
| 001 | BH2_0.1-0.2  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 002 | BH2_1.2-1.3  | -                     | -                     | 26                                                 | -            | 7                                           | 10                                              | 11            | 7                                          |
| 003 | BH2_1.6-1.7  | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 004 | BH3M_0.1-0.2 | -                     | -                     | -                                                  | -            | 7                                           | -                                               | -             | -                                          |
| 005 | BH3M_0.7-0.8 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 006 | BH3M_1.7-1.8 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 007 | BH3M_2.8-2.9 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 008 | BH4M_0.3-0.5 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 009 | BH4M_1.4-1.5 | -                     | -                     | 26                                                 | -            | 7                                           | 10                                              | 11            | 7                                          |
| 010 | BH4M_2.9-3.0 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 011 | BH4M_4.9-5.0 | -                     | -                     | 26                                                 | -            | 7                                           | 10                                              | 11            | 7                                          |
| 012 | BH5M_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 013 | BH5M_1.5-1.6 | -                     | -                     | 26                                                 | -            | 7                                           | 10                                              | 11            | 7                                          |
| 014 | BH5M_1.9-2.0 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |

\_ CONTINUED OVERLEAF

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

17/07/2020



- CLIENT DETAILS -

Client EI AUSTRALIA

- SUMMARY OF ANALYSIS

| No. | Sample ID    | Fibre Identification in soil | Mercury in Soil | Moisture Content |
|-----|--------------|------------------------------|-----------------|------------------|
| 001 | BH2_0.1-0.2  | 2                            | 1               | 1                |
| 002 | BH2_1.2-1.3  | -                            | 1               | 1                |
| 003 | BH2_1.6-1.7  | 2                            | 1               | 1                |
| 004 | BH3M_0.1-0.2 | 2                            | 1               | 1                |
| 005 | BH3M_0.7-0.8 | 2                            | 1               | 1                |
| 006 | BH3M_1.7-1.8 | 2                            | 1               | 1                |
| 007 | BH3M_2.8-2.9 | 2                            | 1               | 1                |
| 008 | BH4M_0.3-0.5 | 2                            | 1               | 1                |
| 009 | BH4M_1.4-1.5 | -                            | 1               | 1                |
| 010 | BH4M_2.9-3.0 | 2                            | 1               | 1                |
| 011 | BH4M_4.9-5.0 | -                            | 1               | 1                |
| 012 | BH5M_0.1-0.2 | 2                            | 1               | 1                |
| 013 | BH5M_1.5-1.6 | -                            | 1               | 1                |
| 014 | BH5M_1.9-2.0 | 2                            | 1               | 1                |

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

Project E24724.E02 2 Mandala Parade, Castle Hill

\_ of \_\_\_ Sheet Sample Matrix Analysis Comments Project No: HMA Site: 2 Mandala Parade, Castle Hin pH / EC (electrical conductivity) Arsenic Cadmium Eza720 pH / CEC (cation exchange) Chromium OTHERS (i.e. Fibro, Paint, etc.) HM <sup>A</sup> /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos /TRH/BTEX/PAHs Copper E02 Asbestos Quantification Lead Laboratory: SGS Australia Mercurv /TRH/BTEX PAH Nickel Dewatering Suite Unit 16, 33 Maddox Street, Zinc **ALEXANDRIA NSW 2015** нм₿ B P: 02 8594 0400 F: 02 8594 0499 MH Arsenic Asbestos sPOCAS Cadmium Sampling WATER VOCs BTEX TCLP A A PFAS Sample Laboratory Container Chromium MH HM 2 SOIL ID Type Lead ID Date Time Mercurv Nickel 20/7/20 Bulpa BH6-0.1-0.2 J/210 X **Dewatering Suite** K pH & EC TDS / Turbidity NTU +6-0,4-0. × Hardness **Total Cyanide** 346-0.9-1.0 X Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) X V V X TRH (F1, F2, F3, F4) BTEX PAH **Total Phenol** LABORATORY TURNAROUND X Standard SGS EHS Sydney COC 24 Hours SE209082 **48 Hours** 72 Hours Other Container Type: Investigator: I attest that these samples were collected in accordance J= solvent washed, acid rinsed, Teflon sealed, glass jar . Report with EI Waste Classification Table S= solvent washed, acid rinsed glass bottle with standard EI field sampling procedures. P= natural HDPE plastic bottle VC= glass vial, Teflon Septum Sampler's Name (EI): Received by (SGS): Sampler's Comments: ZLB = Zip-Lock Bag Print Print 1-War SCORA Signature Signature Suite 6.01, 55 Miller Street, **PYRMONT NSW 2009** Date Date a 20 Ph: 9516 0722 eiaustralia IMPORTANT: lab@eiaustralia.com.au

Please e-mail laboratory results to: lab@eiaustralia.com.au

COC March 2018 FORM v 4 - SGS

source: Sydney.pdf page: 4 SGS Ref: SE209082\_CO0



| CLIENT DETAIL | S                                                  | LABORATORY DETA  | ILS                                          |  |
|---------------|----------------------------------------------------|------------------|----------------------------------------------|--|
| Contact       | Li Wei                                             | Manager          | Huong Crawford                               |  |
| Client        | EIAUSTRALIA                                        | Laboratory       | SGS Alexandria Environmental                 |  |
| Address       | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |  |
| Telephone     | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |  |
| Facsimile     | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |  |
| Email         | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |  |
| Project       | E24724.E02 2 Mandala Parade, Castle Hill           | Samples Received | Thu 23/7/2020                                |  |
| Order Number  | E24724.E02                                         | Report Due       | Thu 30/7/2020                                |  |
| Samples       | 4                                                  | SGS Reference    | SE209082                                     |  |

\_ SUBMISSION DETAILS

This is to confirm that 4 samples were received on Thursday 23/7/2020. Results are expected to be ready by COB Thursday 30/7/2020. Please quote SGS reference SE209082 when making enquiries. Refer below for details relating to sample integrity upon receipt.

- Samples clearly labelled Sample container provider Samples received in correct containers Date documentation received Samples received in good order Sample temperature upon receipt Turnaround time requested
- Yes SGS Yes 23/7/2020 Yes 8.1°C Standard

Complete documentation received Sample cooling method Sample counts by matrix Type of documentation received Samples received without headspace Sufficient sample for analysis Yes Ice Bricks 2 Soil COC Yes Yes

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS -

2 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

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SGS Australia Pty Ltd ABN 44 000 964 278 Environment, Health and Safety

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2015 Australia 2015 Australia

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| Sheet of                                                 |                                                                                                        |                                                   |                   |                              | Sam   | ple M         | latrix                           |                                            |                    |                  |                  |                   | -                 |                         | Ana                        | lysis                             |                  |        |          | 3                        | 4                      | _            |             | Comments                                                           |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------|------------------------------|-------|---------------|----------------------------------|--------------------------------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------------|----------------------------|-----------------------------------|------------------|--------|----------|--------------------------|------------------------|--------------|-------------|--------------------------------------------------------------------|
| Site:<br>2 ma=dala                                       |                                                                                                        | le Cas-                                           | He-Hin            | Project No:<br>Ezq7ze<br>Eo2 |       |               |                                  | oAHs<br>stos                               | AHs                |                  |                  |                   |                   | tion                    |                            | · ·                               |                  | •      |          | pH/Ec/Solublecattorymong | cl, capanate, sup v    | atton /ctc   | +-          | HM A<br>Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead           |
| Laboratory:                                              | ALEXAN                                                                                                 | stralia<br>33 Maddox<br>IDRIA NSW<br>94 0400 F: 0 | 2015<br>2 8594 04 |                              |       |               | OTHERS (i.e. Fibro, Paint, etc.) | HM A /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs     | /ТКН/ВТЕХ        |                  |                   | tos               | Asbestos Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | Dewatering Suite | SA     |          | c/solublea               | So lable anions (cl. c |              |             | Mercury<br>Nickel<br>Zinc<br>HM <sup>B</sup><br>Arsenic<br>Cadmium |
| Sample<br>ID                                             | Laboratory<br>ID                                                                                       | Container<br>Type                                 | Date              | Time                         | WATER | SOIL          | OTHER:                           | HM A<br>OCP/C                              | HMA/               | HMA/             | BTEX             | VOCs              | Asbestos          | Asbes                   | pH/C                       | pH / E(                           | Dewat            | sPOCAS | PFAS     | PH/E                     | So lable               | Textural     | TCLP        | Chromium<br>Lead<br>Mercury<br>Nickel                              |
| BH2-1.9-2.5                                              | 15                                                                                                     | J                                                 | 9/7/2             | 20 Ampan                     |       | X             |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          | X                        | ×                      | X            |             | Dewatering Suite                                                   |
| BHZ-1.9-2.3<br>BHZ-2.9-3.0<br>BHZM 2.8-2.9<br>BHGM-44-4. | 16                                                                                                     | <u> </u>                                          | J                 |                              |       | X             |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          | X                        | X                      | x            |             | TDS / Turbidity NTU<br>Hardness                                    |
| BH 31 2.8-2.9                                            | 7                                                                                                      |                                                   | 13/7/2            | 10                           |       | $\times$      |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          | ×                        | X                      | X            |             | Total Cyanide<br>Metals (Al, As, Cd, Cr,                           |
| BHGM - 4.4-4.                                            | 517                                                                                                    |                                                   | 14/7/2            | 0                            |       | ×             |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  | •      |          | ×                        | X                      | ×            |             | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)<br>BTEX                |
| BHAM_ 4.9-5.                                             | p t l                                                                                                  | d                                                 |                   | V                            |       | X             |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          | X                        | X                      | X            |             | PAH<br>Total Phenol                                                |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          |                          |                        |              |             | LABORATORY<br>TURNAROUND                                           |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          |                          |                        |              |             | Standard                                                           |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          |                          |                        |              |             | 24 Hours                                                           |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  | *      |          |                          |                        |              |             | 48 Hours                                                           |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          |                          |                        |              |             | 72 Hours                                                           |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            |                    |                  |                  |                   |                   |                         |                            |                                   |                  |        |          |                          |                        |              |             | Other                                                              |
|                                                          |                                                                                                        |                                                   |                   |                              |       |               |                                  |                                            | N.                 | 7                | ~ ~              |                   |                   |                         |                            |                                   |                  |        |          |                          |                        |              |             |                                                                    |
| S= solvent washed, aci                                   | J≖ solvent washed, acid rinsed,Teflon sealed, glass jar<br>S= solvent washed, acid rinsed glass bottle |                                                   |                   |                              |       | Inves         | tigato                           | r: I atte<br>with                          | est that<br>standa | t thes<br>ard El | e sam<br>field s | iples w<br>sampli | vere co<br>ng pro | ollecte                 | ed in a<br>res,            | ccorda                            | ance             | . R    | Report v | with El                  | Wast                   | e Clas       | sificati    | on Table                                                           |
|                                                          | = natural HDPE plastic bottle<br>C= glass vial, Teflon Septum                                          |                                                   |                   |                              |       | Sampl<br>Prin |                                  | me (EI)                                    | :                  |                  |                  |                   | ved by            | (SGS):                  |                            |                                   |                  | Sam    | pler's ( | Comm                     | nents:                 |              |             |                                                                    |
| ZED - ZIP-LOCK BAY                                       | LB = Zip-Lock Bag<br>Suite 6.01, 55 Miller St                                                          |                                                   |                   |                              |       |               | aturo                            | Lia                                        |                    |                  |                  | Prin<br>Sign      | ature             | EL                      | in                         | h                                 |                  |        |          | SGS                      | EHS                    | Alex         | andria      |                                                                    |
|                                                          | PYRMONT NSW 200                                                                                        |                                                   |                   |                              |       | Date          |                                  | su                                         |                    |                  |                  | Date              |                   | í                       |                            | D                                 | 11               |        |          |                          |                        |              |             |                                                                    |
| eiaus                                                    | eiaustralia Ph: 9516 0722<br>lab@eiaustralia.com.a                                                     |                                                   |                   |                              |       | IMP           |                                  | AT                                         |                    |                  |                  |                   |                   | 11                      | 70                         | 5 -                               | (6 a             |        |          |                          |                        |              |             | COC                                                                |
| Contamination   Remed                                    | Contamination   Remediation   Geotechnical IaD@elaUStralia.com<br>COC March 2018 FORM v.4-SGS          |                                                   |                   |                              |       |               |                                  | nail lab                                   |                    | y resi           | ults to:         | lab@              | @eia              | ustra                   | lia.co                     | om.ai                             | u                | •      |          | SE                       | EZU<br>ceive           | 884<br>1: 21 | HOH<br>Jul- | <b>COC</b><br>-2020                                                |



#### - CLIENT DETAILS -

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| - SUMMARY | OF ANALYSIS |                       |                       |                                                    |              |                                             |                                                 |               |                                            |
|-----------|-------------|-----------------------|-----------------------|----------------------------------------------------|--------------|---------------------------------------------|-------------------------------------------------|---------------|--------------------------------------------|
| No.       | Sample ID   | OC Pesticides in Soil | OP Pesticides in Soil | PAH (Polynuclear Aromatic<br>Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable<br>Elements in Soil/Waste | TRH (Total Recoverable<br>Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum<br>Hydrocarbons in Soil |
| 001       | BH6_0.1-0.2 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |
| 004       | BH6_1.4-1.5 | 29                    | 14                    | 26                                                 | 11           | 7                                           | 10                                              | 11            | 7                                          |

\_ CONTINUED OVERLEAF

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



#### CLIENT DETAILS

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| - SU | JMMARY | OF ANALYSIS |  |                              |                 |                  |  |
|------|--------|-------------|--|------------------------------|-----------------|------------------|--|
|      | No.    | Sample ID   |  | Fibre Identification in soil | Mercury in Soil | Moisture Content |  |
| 0    | 001    | BH6_0.1-0.2 |  | 2                            | 1               | 1                |  |
| 0    | 004    | BH6_1.4-1.5 |  | 2                            | 1               | 1                |  |

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



| CLIENT DETAIL | S                                                  | LABORATORY DETA  | NLS                                          |
|---------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact       | Li Wei                                             | Manager          | Huong Crawford                               |
| Client        | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
| Address       | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone     | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile     | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email         | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project       | E24724.E02 2 Mandala Parade, Castle Hill           | Samples Received | Tue 21/7/2020                                |
| Order Number  | E24724.E02                                         | Report Due       | Tue 28/7/2020                                |
| Samples       | 17                                                 | SGS Reference    | SE208846A                                    |

SUBMISSION DETAILS

This is to confirm that 17 samples were received on Tuesday 21/7/2020. Results are expected to be ready by COB Tuesday 28/7/2020. Please quote SGS reference SE208846A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled Sample container provider Samples received in correct containers Date documentation received Samples received in good order Sample temperature upon receipt Turnaround time requested Yes SGS Yes 21/7/2020@8:16am Yes 14°C Standard Complete documentation received Sample cooling method Sample counts by matrix Type of documentation received Samples received without headspace Sufficient sample for analysis Yes Ice Bricks 5 Soil COC Yes Yes

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS -

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SGS Australia Pty Ltd ABN 44 000 964 278 Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Alexandria NSW 2015

Australia f Australia f

t +61 2 8594 0400 f +61 2 8594 0499

www.sgs.com.au



# SAMPLE RECEIPT ADVICE

#### CLIENT DETAILS

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| - SUMMARY | OF ANALYSIS  |                    |                                               |                                                      |                  | 1                |                       |                                                       |                                             |
|-----------|--------------|--------------------|-----------------------------------------------|------------------------------------------------------|------------------|------------------|-----------------------|-------------------------------------------------------|---------------------------------------------|
| No.       | Sample ID    | Alkalinity in Soil | Conductivity and TDS by<br>Calculation - Soil | Exchangeable Cations and<br>Cation Exchange Capacity | Moisture Content | pH in soil (1:5) | Soil Texture (AS4419) | Soluble Anions (1:5) in Soil<br>by Ion Chromatography | Total Recoverable<br>Elements in Soil/Waste |
| 007       | BH3M_2.8-2.9 | 4                  | 1                                             | 13                                                   | -                | 1                | 1                     | 2                                                     | 5                                           |
| 011       | BH4M_4.9-5.0 | 4                  | 1                                             | 13                                                   | -                | 1                | 1                     | 2                                                     | 5                                           |
| 015       | BH2_1.9-2.0  | 4                  | 1                                             | 13                                                   | 1                | 1                | 1                     | 2                                                     | 5                                           |
| 016       | BH2_2.9-3.0  | 4                  | 1                                             | 13                                                   | 1                | 1                | 1                     | 2                                                     | 5                                           |
| 017       | BH4M_4.4-4.5 | 4                  | 1                                             | 13                                                   | 1                | 1                | 1                     | 2                                                     | 5                                           |

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details . Testing as per this table shall commence immediately unless the client intervenes with a correction . source: Sydney.pdf page: 9 SGS Ref. SE209379\_COC

| Sheet of                                         |                                                                         | _                                                   |           |              |            | Sam       | nple N                              | /latrix                          |                                                       |                |           |          |               |          |                  | Ana                        | lysis                        |            |        |        |        |         |         |                      | Comments                                             |
|--------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------|------------|-----------|-------------------------------------|----------------------------------|-------------------------------------------------------|----------------|-----------|----------|---------------|----------|------------------|----------------------------|------------------------------|------------|--------|--------|--------|---------|---------|----------------------|------------------------------------------------------|
| Site:                                            | 1                                                                       | 0                                                   |           | Proj         | ject No:   |           |                                     |                                  |                                                       |                |           |          |               |          |                  |                            |                              |            |        |        |        |         |         |                      | нмА                                                  |
| z mandala                                        | a Para                                                                  | all,                                                |           | Ez           | 247249     | 1         |                                     |                                  |                                                       |                |           |          |               |          |                  | (e)                        | tivity                       |            |        |        |        |         |         |                      | Arsenic<br>Cadmium                                   |
|                                                  | Castis                                                                  | 2 thin                                              |           |              | For        |           |                                     | t, etc.                          | AHS                                                   | AHS            |           |          |               |          | ion              | hang                       | uduc                         |            |        |        |        |         |         |                      | Chromium<br>Copper<br>Lead                           |
| Laboratory:                                      | ALEXA                                                                   | Istralia<br>33 Maddox<br>NDRIA NSW<br>594 0400 F: 0 | 2015      | 0499         |            |           |                                     | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>OCP/OP/PCB/Asbestos | /TRH/BTEX/PAHs | /TRH/BTEX |          |               | S        | s Quantification | pH / CEC (cation exchange) | EC (electrical conductivity) | ing Suite  |        |        |        |         |         | И <sup>В</sup> / РАН | Mercury<br>Nickel<br>Zinc<br>HM B<br>Arsenic         |
| Sample                                           | Laboratory                                                              |                                                     | 5         | Samplin      | g          | WATER     |                                     | ERS                              |                                                       | A/T            | A/T       | BTEX     | VOCS          | Asbestos | Asbestos         | / CE(                      | /EC                          | Dewatering | sPOCAS | St     |        |         |         | P HM                 | Cadmium<br>Chromium                                  |
| ID                                               | ID                                                                      | Туре                                                | Date      |              | Time       | MA        | SOIL                                | отн                              | NH<br>OO<br>HO                                        | HM A           | HM A      | BTB      | VO            | Ast      | Ast              | Hd                         | Hd                           | Dev        | sPC    | PFAS   |        |         |         | TCL                  | Lead<br>Mercury                                      |
| BH3m-a                                           | 1                                                                       | 28,5,200                                            | 29/       | 7/20         | Bu/Pa      | NX        |                                     |                                  |                                                       | X              |           |          | X             |          |                  |                            | X                            |            |        |        |        |         |         |                      | Nickel Dewatering Suite                              |
| BH4m-a                                           | 2                                                                       | Î                                                   | 1         |              | 1          | X         |                                     |                                  |                                                       | X              |           |          | X             |          |                  |                            | X                            |            | •      |        |        |         |         |                      | pH & EC<br>TDS / Turbidity NTU                       |
| BHSM                                             | 3                                                                       | V                                                   |           |              |            | X         |                                     |                                  |                                                       | X              |           |          | X             |          |                  |                            | X                            |            |        |        |        |         |         |                      | Hardness<br>Total Cyanide<br>Metals (Al, As, Cd, Cr, |
| GWODI                                            | 4                                                                       | P.5,20c                                             |           |              |            | X         |                                     |                                  |                                                       |                | X         |          |               |          |                  |                            | -                            |            |        |        |        |         |         | _                    | Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4)          |
| GWBRL                                            | 5                                                                       | (                                                   |           |              |            | X         |                                     |                                  |                                                       |                | X         |          |               |          |                  |                            |                              |            |        |        |        |         |         |                      | BTEX<br>PAH<br>Total Phenol                          |
| GWORBI                                           |                                                                         |                                                     | 2         |              | 1          | X         |                                     |                                  |                                                       |                |           |          |               |          |                  |                            |                              |            |        |        |        |         |         |                      | LABORATORY                                           |
| GWTBI                                            | 6                                                                       |                                                     | h t       | rec          | sasle      | IX        |                                     |                                  |                                                       |                |           | X        |               |          |                  |                            |                              |            | •      |        |        |         |         |                      | TURNAROUND                                           |
| GWTSI                                            | 5                                                                       |                                                     | 20 f      | TY           | an co      | $\propto$ |                                     |                                  |                                                       |                |           | X        |               |          |                  |                            |                              |            |        | ey C   | ос     |         | t       |                      | Standard                                             |
|                                                  |                                                                         |                                                     |           |              |            |           |                                     |                                  |                                                       |                |           | V        |               |          |                  | -                          | SE                           | 20         | 93     | 79     |        |         | t       | _                    | 24 Hours                                             |
|                                                  |                                                                         |                                                     |           |              |            |           |                                     |                                  |                                                       |                |           |          |               |          |                  |                            |                              |            |        |        |        |         | 11 -    | _                    | 48 Hours                                             |
|                                                  |                                                                         |                                                     |           |              |            |           |                                     |                                  |                                                       |                |           |          |               |          | -                | _                          |                              |            |        |        |        |         | ł       | _                    | 72 Hours                                             |
|                                                  |                                                                         |                                                     |           | <u>.</u> 69. |            |           |                                     |                                  |                                                       |                |           |          |               |          |                  | -                          |                              |            |        |        |        |         |         | _                    | Other                                                |
| <b>Container Type:</b><br>J= solvent washed, aci | d rings of Tak                                                          | flam angled alors                                   |           |              |            |           | Invos                               | tigato                           | r: I atte                                             | ot the         | t thoo    |          | nlagu         |          |                  |                            |                              |            |        |        |        |         |         |                      |                                                      |
| S= solvent washed, aci<br>P= natural HDPE plasti | id rinsed gla                                                           |                                                     | s jar     |              |            |           | inves                               | sugato                           |                                                       |                |           |          | sampli        |          |                  |                            | ccorda                       | ance       | F      | Report | with E | I Waste | e Class | ificatio             | on Table                                             |
| VC= glass vial, Teflon S<br>ZLB = Zip-Lock Bag   |                                                                         |                                                     |           | 2            |            |           | Samp<br>Prir                        |                                  | ime (EI):                                             | :<br>) r       | 1         |          | Recei<br>Prin | ved by   | (SGS):           | ha                         |                              |            | Sam    | pler's | Comn   | nents:  |         |                      |                                                      |
|                                                  |                                                                         |                                                     |           |              | Ailler Str |           | _                                   | ature                            | in                                                    | i              |           |          |               | ature    | 3.2              | Ru                         | J                            |            |        |        |        |         |         |                      |                                                      |
| eiaus                                            | eiaustralia PYRMONT NSW 2009<br>Ph: 9516 0722<br>lab@eiaustralia.com.au |                                                     |           |              |            |           | Date 30 7 20 Date 30 07 120 0 12.15 |                                  |                                                       |                |           |          |               |          |                  |                            |                              |            |        |        |        |         |         |                      |                                                      |
| Contamination   Remedi                           | ation   Geotech                                                         | nical                                               | COC March |              |            | au        |                                     |                                  | AN I<br>nail lab                                      |                | ry resu   | ults to: | lab@          | Deia     | ustra            | lia.co                     | om.ai                        | J          |        |        |        |         |         |                      |                                                      |



## SAMPLE RECEIPT ADVICE

| CLIENT DETAIL | s                                                  | LABORATORY DETA  | NLS                                          |  |
|---------------|----------------------------------------------------|------------------|----------------------------------------------|--|
| Contact       | Li Wei                                             | Manager          | Huong Crawford                               |  |
| Client        | EIAUSTRALIA                                        | Laboratory       | SGS Alexandria Environmental                 |  |
| Address       | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |  |
| Telephone     | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |  |
| Facsimile     | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |  |
| Email         | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |  |
| Project       | E24724.E02 2 Mandala Parade, Castle Hill           | Samples Received | Thu 30/7/2020                                |  |
| Order Number  | E24724.E02                                         | Report Due       | Thu 6/8/2020                                 |  |
| Samples       | 7                                                  | SGS Reference    | SE209379                                     |  |

- SUBMISSION DETAILS

This is to confirm that 7 samples were received on Thursday 30/7/2020. Results are expected to be ready by COB Thursday 6/8/2020. Please quote SGS reference SE209379 when making enquiries. Refer below for details relating to sample integrity upon receipt.

- Samples clearly labelled Sample container provider Samples received in correct containers Date documentation received Samples received in good order Sample temperature upon receipt Turnaround time requested
- Yes SGS Yes 30/7/2020 Yes 5.4°C Standard

Complete documentation received Sample cooling method Sample counts by matrix Type of documentation received Samples received without headspace Sufficient sample for analysis Yes Ice Bricks 7 Water COC Yes Yes

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS -

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SGS Australia Pty Ltd ABN 44 000 964 278 Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Alexandria NSW 2015

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# SAMPLE RECEIPT ADVICE

#### CLIENT DETAILS

Client EI AUSTRALIA

Project E24724.E02 2 Mandala Parade, Castle Hill

| SUMMARY | OF ANALYSIS |                                                |                                 | 1                                                   |             |                                               |                                                  | 1             |                                             |
|---------|-------------|------------------------------------------------|---------------------------------|-----------------------------------------------------|-------------|-----------------------------------------------|--------------------------------------------------|---------------|---------------------------------------------|
| No.     | Sample ID   | Conductivity and TDS by<br>Calculation - Water | Mercury (dissolved) in<br>Water | PAH (Polynuclear Aromatic<br>Hydrocarbons) in Water | pH in water | Trace Metals (Dissolved)<br>in Water by ICPMS | TRH (Total Recoverable<br>Hydrocarbons) in Water | VOCs in Water | Volatile Petroleum<br>Hydrocarbons in Water |
| 001     | BH3M-a      | 1                                              | 1                               | 22                                                  | 1           | 7                                             | 9                                                | 78            | 7                                           |
| 002     | BH4M-a      | 1                                              | 1                               | 22                                                  | 1           | 7                                             | 9                                                | 78            | 7                                           |
| 003     | BH5M        | 1                                              | 1                               | 22                                                  | 1           | 7                                             | 9                                                | 78            | 7                                           |
| 004     | GWQD 1      | -                                              | 1                               | -                                                   | -           | 7                                             | 9                                                | 11            | 7                                           |
| 005     | GWQR 1      | -                                              | 1                               | -                                                   | -           | 7                                             | 9                                                | 11            | 7                                           |
| 006     | GWTB 1      | -                                              | -                               | -                                                   | -           | -                                             | -                                                | 11            | -                                           |
| 007     | GWTS 1      | -                                              | -                               | -                                                   | -           | -                                             | -                                                | 11            | -                                           |

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

|                                                                            |                      |                                         |                                                                |            |                                        |       |              |                                  |                                                       |                     | _                   |         |                   |               |                |                            |                                   |                      |                     |                               |              |                                           |         |              |                                                                                                       |
|----------------------------------------------------------------------------|----------------------|-----------------------------------------|----------------------------------------------------------------|------------|----------------------------------------|-------|--------------|----------------------------------|-------------------------------------------------------|---------------------|---------------------|---------|-------------------|---------------|----------------|----------------------------|-----------------------------------|----------------------|---------------------|-------------------------------|--------------|-------------------------------------------|---------|--------------|-------------------------------------------------------------------------------------------------------|
| Sheet                                                                      | of _                 | -                                       | _                                                              |            |                                        |       | nple N       | /latrix                          |                                                       | _                   |                     |         |                   |               |                | Ana                        | lysis                             |                      |                     |                               |              |                                           |         |              | Comments                                                                                              |
| Site:<br>Laboratory:                                                       | ма,<br>С             | nda<br>ast<br>Enviro<br>12 Ash<br>CHATS | la Para<br>(L. HiU<br>lab Service:<br>lley Street,<br>SWOOD NS | s          | Project No:<br>EZG729<br>EO2           |       |              | OTHERS (i.e. Fibro, Paint, etc.) | HM <sup>A</sup> /TRH/BTEX/PAHs<br>0CP/0P/PCB/Asbestos | /TRH/BTEX/PAHs      | /TRH/BTEX           | · · · · |                   |               | Quantification | pH / CEC (cation exchange) | pH / EC (electrical conductivity) | g Suite              |                     |                               |              |                                           |         | B / PAH      | HM A<br>Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead<br>Mercury<br>Nickel<br>Zinc<br>HM B         |
| Sample<br>ID                                                               |                      | P: 02 9<br>aboratory<br>ID              | 910 6200<br>Container<br>Type                                  | Sa<br>Date | Time                                   | WATER | SOIL         | OTHERS (i.e                      | HM <sup>A</sup> /TF<br>OCP/OP/I                       | HM <sup>≜</sup> /TR | HM <sup>A</sup> /TR | BTEX    | VOCs -2           | Asbestos      | Asbestos       | pH / CEC                   | pH / EC (e                        | Dewatering Suite     | sPOCAS              | PFAS                          |              |                                           |         | TCLP HM      | Arsenic<br>Cadmium<br>Chromium<br>Lead<br>Mercury                                                     |
| GWOTI                                                                      |                      | ()                                      | P\$5226                                                        | 29/7       | (2) Am/F                               | γuX   |              |                                  |                                                       |                     | X                   |         | í                 |               |                |                            |                                   | -                    |                     |                               |              | -                                         |         |              | Nickel<br>Dewatering Suite<br>pH & EC<br>TDS / Turbidity NTU                                          |
|                                                                            |                      |                                         |                                                                |            |                                        |       |              |                                  |                                                       |                     |                     |         | •                 |               |                |                            |                                   |                      |                     |                               |              |                                           |         |              | Hardness<br>. Total Cyanide<br>Metals (Al, As, Cd, Cr,<br>Cu, Pb, Hg, Ni, Zn)<br>TRH (F1, F2, F3, F4) |
|                                                                            |                      |                                         |                                                                |            |                                        |       |              |                                  |                                                       |                     |                     |         |                   |               | ·<br>·         |                            |                                   |                      |                     | <u>,</u>                      |              | ·                                         |         |              | BTEX<br>PAH<br>Total Phenol                                                                           |
|                                                                            |                      |                                         |                                                                |            |                                        | -     | •            |                                  |                                                       | -                   |                     | 1       | ,                 |               |                |                            |                                   | envii                | OLAB                | Chats                         | vood N       | Services<br>shley S<br>SW 2061<br>10 6200 | t l     |              | LABORATORY<br>TURNAROUND                                                                              |
|                                                                            |                      |                                         |                                                                |            |                                        |       |              |                                  |                                                       |                     |                     |         |                   |               |                |                            |                                   | Job<br>Date          | No:<br>Receiv       | 24<br>ed: 5                   | 801          | 38                                        | 202     | <del>ó</del> | 24 Hours                                                                                              |
|                                                                            |                      |                                         |                                                                |            | ,                                      |       |              |                                  |                                                       |                     |                     |         |                   |               |                | -                          |                                   | Time<br>Rece<br>Temp | Receiv              | ed:<br>: V<br>Ambier<br>cepac | 157          |                                           | 2.c     |              | 48 Hours<br>72 Hours                                                                                  |
|                                                                            |                      |                                         |                                                                |            |                                        |       |              |                                  |                                                       |                     |                     |         |                   |               |                |                            |                                   | Cooli<br>Secu        | ng: Ice<br>rity: nt | cepac<br>actiBro              | ky<br>ken/No | ne                                        |         |              | Other                                                                                                 |
| Container Type:<br>J= solvent washe<br>S= solvent washe<br>P= natural HDPE | ed, acid<br>ed, acid | rinsed gla                              | flon sealed, glas                                              | ss jar     | ,                                      | I     | Inves        | stigato                          | r: I atte<br>with                                     |                     |                     |         | nples v<br>sampli |               |                |                            | ccord                             | ànce                 | F                   | Report                        | uith E       | l Wast                                    | e Class | sificati     | on Table                                                                                              |
| VC= glass vial, T<br>ZLB = Zip-Lock B                                      | eflon Se             |                                         |                                                                |            |                                        |       | Samp<br>Prir | nt                               | ame (El)                                              |                     |                     | 1       | Rece<br>Prir      | ived by<br>it | 1              |                            |                                   | 9                    | Sam                 | plér's                        | Comr         | nents:                                    |         |              |                                                                                                       |
|                                                                            | <b>(</b> )           |                                         |                                                                | PYRMO      | 55 Miller Sf<br>NT NSW 20<br>9516 0722 |       | Sign<br>Date | ature                            | ve<br>ve<br>D/ 7                                      | 2                   | <br>7 .             |         | Date              | ature<br>30/  |                | 401<br>Kot<br>2024         | Ą                                 |                      | Þ                   |                               |              |                                           |         |              |                                                                                                       |
|                                                                            | IST                  | on   Geotech                            | anical                                                         | lab@eiaı   | Istralia.com                           | .au   |              |                                  | TANT<br>nail lab                                      |                     | ry resi             | ults to |                   |               |                |                            |                                   |                      |                     |                               |              |                                           |         |              |                                                                                                       |

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Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

# SAMPLE RECEIPT ADVICE

| Client Details |              |
|----------------|--------------|
| Client         | El Australia |
| Attention      | Lab Email    |

| Sample Login Details                 |                         |
|--------------------------------------|-------------------------|
| Your reference                       | E24729.E02, Castle Hill |
| Envirolab Reference                  | 248038                  |
| Date Sample Received                 | 30/07/2020              |
| Date Instructions Received           | 30/07/2020              |
| Date Results Expected to be Reported | 06/08/2020              |

| Sample Condition                                       |          |
|--------------------------------------------------------|----------|
| Samples received in appropriate condition for analysis | Yes      |
| No. of Samples Provided                                | 1 Water  |
| Turnaround Time Requested                              | Standard |
| Temperature on Receipt (°C)                            | 13.2     |
| Cooling Method                                         | Ice Pack |
| Sampling Date Provided                                 | YES      |

| Comments |  |
|----------|--|
| Nil      |  |

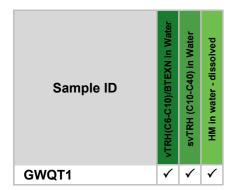
Please direct any queries to:

| Aileen Hie                   | Jacinta Hurst                  |
|------------------------------|--------------------------------|
| Phone: 02 9910 6200          | Phone: 02 9910 6200            |
| Fax: 02 9910 6201            | Fax: 02 9910 6201              |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au



The '\s' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

## **Additional Info**

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Appendix I - Laboratory Analytical Reports



# **ANALYTICAL REPORT**





| CLIENT DETAILS |                                                    | LABORATORY DE | TAILS                                        |
|----------------|----------------------------------------------------|---------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager       | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory    | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address       | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone     | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile     | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email         | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference | SE208655 R0                                  |
| Order Number   | E24724.E02                                         | Date Received | 13/7/2020                                    |
| Samples        | 32                                                 | Date Reported | 20/7/2020                                    |

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 Identifier Yusuf Kuthpudin.

SIGNATORIES

Akheeqar BENIAMEEN Chemist



Kamrul AHSAN Senior Chemist

Bennet LO Senior Organic Chemist/Metals Chemist

kmln

Ly Kim HA Organic Section Head

Dong LIANG Metals/Inorganics Team Leader

Yusuf KUTHPUDIN Asbestos Analyst

SGS Australia Pty Ltd ABN 44 000 964 278

Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Alexandria NSW 2015 Australiat +61 2 8594 0400Australiaf +61 2 8594 0499

www.sgs.com.au

20/07/2020



## VOC's in Soil [AN433] Tested: 15/7/2020

|               |       |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     |              |              |              |              |              |
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     |              |              |              |              | -            |
|               |       |     |              | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER     | UOM   | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| 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   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |

|               |       |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     |              |              |              |              | -            |
|               |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER     | UOM   | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| 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   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |

|               |       |     | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     | -            | -            | -            | -            | -            |
|               |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER     | UOM   | LOR | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| 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   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |

|               |       |     | TP14_0.1-0.2             | TP14_1.5-1.6             | TP15_0.1-0.2             | TP15_1.7-1.8             | TP16_0.1-0.2             |
|---------------|-------|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|               |       |     | SOIL                     | SOIL                     | SOIL                     | SOIL                     | SOIL                     |
|               |       |     | -                        | -                        | -                        | -                        | -                        |
| PARAMETER     | UOM   | LOR | 8/7/2020<br>SE208655.016 | 8/7/2020<br>SE208655.017 | 8/7/2020<br>SE208655.018 | 8/7/2020<br>SE208655.019 | 8/7/2020<br>SE208655.020 |
| 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   | mg/kg | 0.1 | <0.1                     | <0.1                     | <0.1                     | <0.1                     | <0.1                     |



## SE208655 R0

## VOC's in Soil [AN433] Tested: 15/7/2020 (continued)

|               |       |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     |              |              |              |              |              |
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     |              |              |              |              | -            |
|               |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER     | UOM   | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| 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   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |

|               |       |     | QD1          | QD2          | QTB1         | QTS1         | BH1_0.1-0.2  |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     |              |              |              |              |              |
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     |              |              |              |              | -            |
|               |       |     |              | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER     | UOM   | LOR | SE208655.026 | SE208655.027 | SE208655.029 | SE208655.030 | SE208655.031 |
| Benzene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | [87%]        | <0.1         |
| Toluene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | [89%]        | <0.1         |
| Ethylbenzene  | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | [90%]        | <0.1         |
| m/p-xylene    | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | [90%]        | <0.2         |
| o-xylene      | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | [91%]        | <0.1         |
| Total Xylenes | mg/kg | 0.3 | <0.3         | <0.3         | <0.3         | -            | <0.3         |
| Total BTEX    | mg/kg | 0.6 | <0.6         | <0.6         | <0.6         | -            | <0.6         |
| Naphthalene   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | -            | <0.1         |

|               |       |     | BH1_0.7-0.8  |
|---------------|-------|-----|--------------|
|               |       |     | SOIL<br>-    |
|               |       |     | 8/7/2020     |
| PARAMETER     | UOM   | LOR | SE208655.032 |
| 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         |
| Total Xylenes | mg/kg | 0.3 | <0.3         |
| Total BTEX    | mg/kg | 0.6 | <0.6         |
| Naphthalene   | mg/kg | 0.1 | <0.1         |



## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 15/7/2020

|                            |       |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              |              |              |
|                            |       |     |              |              |              |              |              |
| PARAMETER                  | UOM   | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          | <20          | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |

|                            |       |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              |              |              |
|                            |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER                  | UOM   | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          | <20          | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |

|                            |       |     | TP12_0.8-0.9                  | TP12_1.7-1.8                  | TP13_0.1-0.2                  | TP13_1.2-1.3                  | TP13_2.0-2.1                  |
|----------------------------|-------|-----|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|                            |       |     | SOIL                          | SOIL                          | SOIL                          | SOIL                          | SOIL                          |
| PARAMETER                  | UOM   | LOR | -<br>8/7/2020<br>SE208655.011 | -<br>8/7/2020<br>SE208655.012 | -<br>8/7/2020<br>SE208655.013 | -<br>8/7/2020<br>SE208655.014 | -<br>8/7/2020<br>SE208655.015 |
| TRH C6-C9                  | mg/kg | 20  | <20                           | <20                           | <20                           | <20                           | <20                           |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                          | <0.1                          | <0.1                          | <0.1                          | <0.1                          |
| TRH C6-C10                 | mg/kg | 25  | <25                           | <25                           | <25                           | <25                           | <25                           |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                           | <25                           | <25                           | <25                           | <25                           |

|                            |       |     | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |       |     |              |              |              |              |              |
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              |              | -            |
|                            |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER                  | UOM   | LOR | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          | <20          | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |

|                            |       |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |       |     |              |              |              |              |              |
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              |              | -            |
|                            |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER                  | UOM   | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          | <20          | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          | <25          | <25          | <25          |

|                            |       |     | QD1          | QD2          | BH1_0.1-0.2  | BH1_0.7-0.8  |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              | -            |
|                            |       |     |              |              |              | 8/7/2020     |
| PARAMETER                  | UOM   | LOR | SE208655.026 | SE208655.027 | SE208655.031 | SE208655.032 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          | <25          | <25          |



## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 15/7/2020

|                                 |       |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|---------------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                                 |       |     |              |              | 001          | 0.011        | 001          |
|                                 |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                 |       |     | -            | -            | -            | -            | -            |
|                                 |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER                       | UOM   | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| 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         |

|                                 |       |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|---------------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                                 |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                 |       |     |              |              |              |              |              |
|                                 |       |     |              |              |              |              |              |
| PARAMETER                       | UOM   | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| 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          | 70           |
| 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         |

|                                 |       |     | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|---------------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                                 |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                 |       |     |              |              |              |              |              |
|                                 |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER                       | UOM   | LOR | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| 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  | 48           | <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: 15/7/2020 (continued)

|                                 |       |     | TP14_0.1-0.2  | TP14_1.5-1.6  | TP15_0.1-0.2  | TP15_1.7-1.8  | TP16_0.1-0.2  |
|---------------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                                 |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                                 |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER                       | UOM   | LOR | SE208655.016  | SE208655.017  | SE208655.018  | SE208655.019  | SE208655.020  |
| TRH C10-C14                     | mg/kg | 20  | <20           | <20           | <20           | <20           | <20           |
| TRH C15-C28                     | mg/kg | 45  | <45           | <45           | <45           | 99            | <45           |
| TRH C29-C36                     | mg/kg | 45  | <45           | <45           | <45           | 330           | <45           |
| TRH C37-C40                     | mg/kg | 100 | <100          | <100          | <100          | 230           | <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           | 280           | <90           |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120          | <120          | <120          | 370           | <120          |
| TRH C10-C36 Total               | mg/kg | 110 | <110          | <110          | <110          | 430           | <110          |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210          | <210          | <210          | 650           | <210          |

|                                 |       |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|---------------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                                 |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                 |       |     |              |              |              |              |              |
|                                 |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER                       | UOM   | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| 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         |

|                                 |       |     | QD1           | QD2           | BH1_0.1-0.2   | BH1_0.7-0.8   |
|---------------------------------|-------|-----|---------------|---------------|---------------|---------------|
|                                 |       |     | SOIL          | SOIL          | SOIL          | SOIL          |
|                                 |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER                       | UOM   | LOR | SE208655.026  | SE208655.027  | SE208655.031  | SE208655.032  |
| TRH C10-C14                     | mg/kg | 20  | <20           | <20           | <20           | <20           |
| TRH C15-C28                     | mg/kg | 45  | <45           | <45           | <45           | <45           |
| TRH C29-C36                     | mg/kg | 45  | <45           | <45           | <45           | <45           |
| TRH C37-C40                     | mg/kg | 100 | <100          | <100          | <100          | <100          |
| TRH >C10-C16                    | mg/kg | 25  | <25           | <25           | <25           | <25           |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25           | <25           | <25           | <25           |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90           | <90           | <90           | <90           |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120          | <120          | <120          | <120          |
| TRH C10-C36 Total               | mg/kg | 110 | <110          | <110          | <110          | <110          |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210          | <210          | <210          | <210          |



## SE208655 R0

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 15/7/2020

|                                                                                                                                                                        |             |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                        |             |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                                                                                                                                                        |             |     |              |              |              |              | -            |
|                                                                                                                                                                        |             |     |              |              |              |              | 8/7/2020     |
| PARAMETER                                                                                                                                                              | UOM         | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| 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         | 0.4          | <0.1         | <0.1         |
| Pyrene                                                                                                                                                                 | mg/kg       | 0.1 | <0.1         | <0.1         | 0.5          | <0.1         | <0.1         |
| Benzo(a)anthracene                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | <0.1         | 0.2          | <0.1         | <0.1         |
| Chrysene                                                                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         | 0.2          | <0.1         | <0.1         |
| Benzo(b&j)fluoranthene                                                                                                                                                 | mg/kg       | 0.1 | <0.1         | <0.1         | 0.2          | <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         | 0.2          | <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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | 0.2          | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | 0.3          | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>0.3</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | 0.3          | <0.2         | <0.2         |
| Total PAH (18)                                                                                                                                                         | mg/kg       | 0.8 | <0.8         | <0.8         | 1.7          | <0.8         | <0.8         |
| Total PAH (NEPM/WHO 16)                                                                                                                                                | mg/kg       | 0.8 | <0.8         | <0.8         | 1.7          | <0.8         | <0.8         |

|                                                                                                                                                                            |             |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                            |             |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                                                                                                                                                            |             |     | -            | - 5012       | - 5012       | - 50IL       | -            |
|                                                                                                                                                                            |             |     |              |              |              |              |              |
| PARAMETER                                                                                                                                                                  | UOM         | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| 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         | 0.2          | <0.1         | 0.2          |
| Pyrene                                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | 0.1          | 0.2          | <0.1         | 0.2          |
| 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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | 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: 15/7/2020 (continued)

|                                                                                                                                                                        |             |     | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                        |             |     |              |              | 001          | 001          | 001          |
|                                                                                                                                                                        |             |     | SOIL         | SOIL         | SOIL<br>-    | SOIL         | SOIL         |
|                                                                                                                                                                        |             |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER                                                                                                                                                              | UOM         | LOR | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| 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 | 0.2          | <0.1         | <0.1         | 0.1          | <0.1         |
| Pyrene                                                                                                                                                                 | mg/kg       | 0.1 | 0.3          | 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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>     | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<> | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | TEQ (mg/kg) | 0.2 | 0.2          | <0.2         | <0.2         | <0.2         | <0.2         |
| Total PAH (18)                                                                                                                                                         | mg/kg       | 0.8 | 1.2          | <0.8         | <0.8         | <0.8         | <0.8         |
| Total PAH (NEPM/WHO 16)                                                                                                                                                | mg/kg       | 0.8 | 1.2          | <0.8         | <0.8         | <0.8         | <0.8         |

|                                                                                                                                                                        |             |     | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                        |             |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                                                                                                                                                        |             |     | -            | -            | -            |              |              |
|                                                                                                                                                                        |             |     |              |              |              |              |              |
| PARAMETER                                                                                                                                                              | UOM         | LOR | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| 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         | 0.2          | <0.1         |
| Anthracene                                                                                                                                                             | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Fluoranthene                                                                                                                                                           | mg/kg       | 0.1 | 0.2          | <0.1         | 0.1          | 0.3          | <0.1         |
| Pyrene                                                                                                                                                                 | mg/kg       | 0.1 | 0.3          | <0.1         | 0.1          | 0.3          | <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         | 0.2          | <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         | 0.3          | <0.1         |
| Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>     | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<> | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>0.2</td><td>&lt;0.2</td></lor=lor>     | 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         | 1.7          | <0.8         |
| Total PAH (NEPM/WHO 16)                                                                                                                                                | mg/kg       | 0.8 | 0.8          | <0.8         | <0.8         | 1.7          | <0.8         |



## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 15/7/2020 (continued)

|                                                                                                                                                                            |             |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                            |             |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                                                                                                                                                            |             |     | -            | - 3012       | - 5012       | - 50IL       | - SUIL       |
|                                                                                                                                                                            |             |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER                                                                                                                                                                  | UOM         | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| 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 | 0.2          | <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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | 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         |

|                                                                                                                            |             |     | BH1_0.1-0.2              | BH1_0.7-0.8              |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------------------|--------------------------|
|                                                                                                                            |             |     | SOIL                     | SOIL                     |
|                                                                                                                            |             |     |                          |                          |
| PARAMETER                                                                                                                  | UOM         | LOR | 8/7/2020<br>SE208655.031 | 8/7/2020<br>SE208655.032 |
| Naphthalene                                                                                                                | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| 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 | <0.1                     | <0.1                     |
| Acenaphthene                                                                                                               | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| Fluorene                                                                                                                   | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| Phenanthrene                                                                                                               | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| Anthracene                                                                                                                 | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| Fluoranthene                                                                                                               | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| Pyrene                                                                                                                     | mg/kg       | 0.1 | <0.1                     | <0.1                     |
| 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 | <0.1                     | <0.1                     |
| 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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2                     | <0.2                     |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3                     | <0.3                     |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2                     | <0.2                     |
| Total PAH (18)                                                                                                             | mg/kg       | 0.8 | <0.8                     | <0.8                     |
| Total PAH (NEPM/WHO 16)                                                                                                    | mg/kg       | 0.8 | <0.8                     | <0.8                     |



## SE208655 R0

## OC Pesticides in Soil [AN420] Tested: 15/7/2020

|                         |       |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|-------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                         |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                         |       |     | -            | -            | -            | -            | -            |
|                         |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER               | UOM   | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| 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                 | 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           |



|                         |       |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|-------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                         |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                         |       |     | -            | -            | -            | -            | -            |
|                         |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER               | UOM   | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Alpha BHC               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Lindane                 | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Heptachlor              | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Aldrin                  | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Beta BHC                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Delta BHC               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| o,p'-DDE                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| p,p'-DDE                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Dieldrin                | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Endrin                  | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| o,p'-DDD                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| o,p'-DDT                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| p,p'-DDD                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| p,p'-DDT                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Methoxychlor            | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Endrin Ketone           | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Isodrin                 | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Mirex                   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Total CLP OC Pesticides | mg/kg | 1   | <1           | <1           | <1           | <1           | <1           |



|                         |       |     | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|-------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                         |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                         |       |     |              |              |              |              | -            |
|                         |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER               | UOM   | LOR | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Alpha BHC               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Lindane                 | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Heptachlor              | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Aldrin                  | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Beta BHC                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Delta BHC               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| o,p'-DDE                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| p,p'-DDE                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Dieldrin                | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Endrin                  | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| o,p'-DDD                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| o,p'-DDT                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| p,p'-DDD                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| p,p'-DDT                | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Methoxychlor            | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Endrin Ketone           | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Isodrin                 | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Mirex                   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Total CLP OC Pesticides | mg/kg | 1   | <1           | <1           | <1           | <1           | <1           |



|                         |       |     | TP14_0.1-0.2  | TP14_1.5-1.6  | TP15_0.1-0.2  | TP15_1.7-1.8  | TP16_0.1-0.2  |
|-------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                         |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                         |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER               | UOM   | LOR | SE208655.016  | SE208655.017  | SE208655.018  | SE208655.019  | SE208655.020  |
| 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                 | 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            |



|                         |       |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|-------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                         |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                         |       |     |              |              |              |              | -            |
|                         |       |     |              |              |              |              | 8/7/2020     |
| PARAMETER               | UOM   | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| 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                 | 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           |



|                         |       |     | BH1_0.1-0.2  | BH1_0.7-0.8  |
|-------------------------|-------|-----|--------------|--------------|
|                         |       |     | SOIL         | SOIL         |
|                         |       |     |              |              |
| PARAMETER               | UOM   | LOR | SE208655.031 | SE208655.032 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1         | <0.1         |
| Alpha BHC               | mg/kg | 0.1 | <0.1         | <0.1         |
| Lindane                 | mg/kg | 0.1 | <0.1         | <0.1         |
| Heptachlor              | mg/kg | 0.1 | <0.1         | <0.1         |
| Aldrin                  | mg/kg | 0.1 | <0.1         | <0.1         |
| Beta BHC                | mg/kg | 0.1 | <0.1         | <0.1         |
| Delta BHC               | mg/kg | 0.1 | <0.1         | <0.1         |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1         | <0.1         |
| o,p'-DDE                | mg/kg | 0.1 | <0.1         | <0.1         |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2         | <0.2         |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1         | <0.1         |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1         | <0.1         |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1         | <0.1         |
| p,p'-DDE                | mg/kg | 0.1 | <0.1         | <0.1         |
| Dieldrin                | mg/kg | 0.2 | <0.2         | <0.2         |
| Endrin                  | mg/kg | 0.2 | <0.2         | <0.2         |
| o,p'-DDD                | mg/kg | 0.1 | <0.1         | <0.1         |
| o,p'-DDT                | mg/kg | 0.1 | <0.1         | <0.1         |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2         | <0.2         |
| p,p'-DDD                | mg/kg | 0.1 | <0.1         | <0.1         |
| p,p'-DDT                | mg/kg | 0.1 | <0.1         | <0.1         |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1         | <0.1         |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1         | <0.1         |
| Methoxychlor            | mg/kg | 0.1 | <0.1         | <0.1         |
| Endrin Ketone           | mg/kg | 0.1 | <0.1         | <0.1         |
| Isodrin                 | mg/kg | 0.1 | <0.1         | <0.1         |
| Mirex                   | mg/kg | 0.1 | <0.1         | <0.1         |
| Total CLP OC Pesticides | mg/kg | 1   | <1           | <1           |



## OP Pesticides in Soil [AN420] Tested: 15/7/2020

|                                   |       |            | TP7_0.1-0.2           | TP7_1.3-1.4           | TP8_0.1-0.2           | TP8_0.9-1.0           | TP9_0.1-0.2           |
|-----------------------------------|-------|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                   |       |            | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 |
| PARAMETER<br>Dichlorvos           | UOM   | LOR<br>0.5 | SE208655.001<br><0.5  | SE208655.002<br><0.5  | SE208655.003<br><0.5  | SE208655.004<br><0.5  | SE208655.005<br><0.5  |
|                                   | mg/kg |            |                       |                       |                       |                       |                       |
| 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                  |

|                                   |       |     | TP9_1.2-1.3   | TP10_0.1-0.2  | TP11_0.1-0.2  | TP11_0.8-0.9  | TP12_0.1-0.2  |
|-----------------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                                   |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                                   |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER                         | UOM   | LOR | SE208655.006  | SE208655.007  | SE208655.008  | SE208655.009  | SE208655.010  |
| 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          |

|                                   |       |     | TP12_0.8-0.9  | TP12_1.7-1.8  | TP13_0.1-0.2  | TP13_1.2-1.3  | TP13_2.0-2.1  |
|-----------------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                                   |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                                   |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER                         | UOM   | LOR | SE208655.011  | SE208655.012  | SE208655.013  | SE208655.014  | SE208655.015  |
| 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          |



|                                   |       |     | TP14_0.1-0.2          | TP14_1.5-1.6          | TP15_0.1-0.2          | TP15_1.7-1.8          | TP16_0.1-0.2          |
|-----------------------------------|-------|-----|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                   |       |     | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 | SOIL<br>-<br>8/7/2020 |
| PARAMETER                         | UOM   | LOR | SE208655.016          | SE208655.017          | SE208655.018          | SE208655.019          | SE208655.020          |
| 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                  |

|                                   |       |     | TP17_0.1-0.2             | TP18_0.1-0.2             | TP18_1.8-1.9             | TP19_0.1-0.2             | TP19_1.4-1.5             |
|-----------------------------------|-------|-----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                   |       |     | SOIL<br>-                | SOIL<br>-                | SOIL<br>-                | SOIL<br>-                | SOIL<br>-                |
| PARAMETER                         | UOM   | LOR | 8/7/2020<br>SE208655.021 | 8/7/2020<br>SE208655.022 | 8/7/2020<br>SE208655.023 | 8/7/2020<br>SE208655.024 | 8/7/2020<br>SE208655.025 |
| 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                     |

|                                   |       |     | BH1_0.1-0.2              | BH1_0.7-0.8              |
|-----------------------------------|-------|-----|--------------------------|--------------------------|
|                                   |       |     | SOIL<br>-                | SOIL                     |
| PARAMETER                         | UOM   | LOR | 8/7/2020<br>SE208655.031 | 8/7/2020<br>SE208655.032 |
| Dichlorvos                        | mg/kg | 0.5 | <0.5                     | <0.5                     |
| Dimethoate                        | mg/kg | 0.5 | <0.5                     | <0.5                     |
| Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5                     | <0.5                     |
| Fenitrothion                      | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Malathion                         | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Bromophos Ethyl                   | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Methidathion                      | mg/kg | 0.5 | <0.5                     | <0.5                     |
| Ethion                            | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2                     | <0.2                     |
| Total OP Pesticides*              | mg/kg | 1.7 | <1.7                     | <1.7                     |



## PCBs in Soil [AN420] Tested: 15/7/2020

|                        |       |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                        |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                        |       |     |              |              |              |              | -            |
|                        |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER              | UOM   | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| 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           |

|                        |       |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                        |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                        |       |     |              |              |              |              | -            |
|                        |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER              | UOM   | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| 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           |

|                        |       |     | TP12_0.8-0.9  | TP12_1.7-1.8  | TP13_0.1-0.2  | TP13_1.2-1.3  | TP13_2.0-2.1  |
|------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                        |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                        |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER              | UOM   | LOR | SE208655.011  | SE208655.012  | SE208655.013  | SE208655.014  | SE208655.015  |
| 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            |



## SE208655 R0

## PCBs in Soil [AN420] Tested: 15/7/2020 (continued)

|                        |       |     | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                        |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                        |       |     |              |              |              |              | -            |
|                        |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER              | UOM   | LOR | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| 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           |

|                        |       |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                        |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                        |       |     |              |              |              |              | -            |
|                        |       |     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER              | UOM   | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| 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           |

|                        |       |     | BH1_0.1-0.2  | BH1_0.7-0.8  |
|------------------------|-------|-----|--------------|--------------|
|                        |       |     | SOIL         | SOIL         |
|                        |       |     |              |              |
| PARAMETER              | UOM   | LOR | SE208655.031 | SE208655.032 |
| Arochlor 1016          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1221          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1232          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1242          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1248          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1254          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1260          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1262          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1268          | mg/kg | 0.2 | <0.2         | <0.2         |
| Total PCBs (Arochlors) | mg/kg | 1   | <1           | <1           |



## SE208655 R0

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 15/7/2020

|              |       |     | TP7_0.1-0.2   | TP7_1.3-1.4   | TP8_0.1-0.2   | TP8_0.9-1.0   | TP9_0.1-0.2   |
|--------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|              |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|              |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER    | UOM   | LOR | SE208655.001  | SE208655.002  | SE208655.003  | SE208655.004  | SE208655.005  |
| Arsenic, As  | mg/kg | 1   | 4             | 14            | 5             | 5             | 4             |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3          | <0.3          | <0.3          | <0.3          | <0.3          |
| Chromium, Cr | mg/kg | 0.5 | 11            | 20            | 24            | 4.6           | 8.4           |
| Copper, Cu   | mg/kg | 0.5 | 24            | 9.6           | 26            | 6.9           | 16            |
| Lead, Pb     | mg/kg | 1   | 12            | 17            | 12            | 18            | 11            |
| Nickel, Ni   | mg/kg | 0.5 | 13            | <0.5          | 18            | <0.5          | 5.7           |
| Zinc, Zn     | mg/kg | 2   | 34            | 7.1           | 27            | 2.2           | 22            |

|              |       |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|--------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|              |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|              |       |     |              |              |              |              |              |
|              |       |     |              |              |              |              |              |
| PARAMETER    | UOM   | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| Arsenic, As  | mg/kg | 1   | <1           | 4            | 4            | 2            | 4            |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Chromium, Cr | mg/kg | 0.5 | 2.3          | 14           | 42           | 29           | 11           |
| Copper, Cu   | mg/kg | 0.5 | 2.1          | 16           | 12           | 130          | 22           |
| Lead, Pb     | mg/kg | 1   | 15           | 12           | 12           | 4            | 15           |
| Nickel, Ni   | mg/kg | 0.5 | <0.5         | 10           | 10           | 34           | 20           |
| Zinc, Zn     | mg/kg | 2   | <2.0         | 31           | 39           | 39           | 42           |

|              |       |     | TP12_0.8-0.9  | TP12_1.7-1.8  | TP13_0.1-0.2  | TP13_1.2-1.3  | TP13_2.0-2.1  |
|--------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|              |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|              |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 | -<br>8/7/2020 |
| PARAMETER    | UOM   | LOR | SE208655.011  | SE208655.012  | SE208655.013  | SE208655.014  | SE208655.015  |
| Arsenic, As  | mg/kg | 1   | 3             | 4             | 3             | 4             | 5             |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3          | <0.3          | <0.3          | <0.3          | <0.3          |
| Chromium, Cr | mg/kg | 0.5 | 12            | 12            | 8.1           | 10            | 14            |
| Copper, Cu   | mg/kg | 0.5 | 19            | 13            | 9.4           | 14            | 12            |
| Lead, Pb     | mg/kg | 1   | 13            | 13            | 10            | 13            | 17            |
| Nickel, Ni   | mg/kg | 0.5 | 18            | 10            | 8.6           | 8.3           | 8.2           |
| Zinc, Zn     | mg/kg | 2   | 38            | 25            | 20            | 28            | 28            |

|              |       |     | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|--------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|              |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|              |       |     | -            | -            | -            | -            | -            |
|              |       |     |              |              |              |              |              |
| PARAMETER    | UOM   | LOR | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| Arsenic, As  | mg/kg | 1   | 4            | 4            | 3            | 4            | 3            |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Chromium, Cr | mg/kg | 0.5 | 13           | 6.1          | 11           | 16           | 15           |
| Copper, Cu   | mg/kg | 0.5 | 15           | <0.5         | 15           | 22           | 24           |
| Lead, Pb     | mg/kg | 1   | 14           | 5            | 16           | 15           | 9            |
| Nickel, Ni   | mg/kg | 0.5 | 13           | <0.5         | 9.3          | 6.8          | 18           |
| Zinc, Zn     | mg/kg | 2   | 35           | <2.0         | 87           | 36           | 50           |



## SE208655 R0

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 15/7/2020

|              |       |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|--------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|              |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|              |       |     |              |              |              |              |              |
| PARAMETER    | UOM   | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| Arsenic, As  | mg/kg | 1   | 4            | 3            | 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 | 10           | 9.1          | 11           | 32           | 16           |
| Copper, Cu   | mg/kg | 0.5 | 12           | 12           | 16           | 23           | 1.9          |
| Lead, Pb     | mg/kg | 1   | 12           | 11           | 14           | 11           | 13           |
| Nickel, Ni   | mg/kg | 0.5 | 9.8          | 9.0          | 9.2          | 15           | 0.7          |
| Zinc, Zn     | mg/kg | 2   | 32           | 30           | 44           | 43           | 2.9          |

|              |       |     | QD1           | QD2           | BH1_0.1-0.2              | BH1_0.7-0.8  |
|--------------|-------|-----|---------------|---------------|--------------------------|--------------|
|              |       |     | SOIL          | SOIL          | SOIL                     | SOIL         |
|              |       |     | -<br>8/7/2020 | -<br>8/7/2020 | -                        | - 8/7/2020   |
| PARAMETER    | UOM   | LOR | SE208655.026  | SE208655.027  | 8/7/2020<br>SE208655.031 | SE208655.032 |
| Arsenic, As  | mg/kg | 1   | 4             | 4             | 5                        | 6            |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3          | <0.3          | <0.3                     | <0.3         |
| Chromium, Cr | mg/kg | 0.5 | 19            | 9.9           | 8.8                      | 7.9          |
| Copper, Cu   | mg/kg | 0.5 | 21            | 12            | 9.8                      | 8.9          |
| Lead, Pb     | mg/kg | 1   | 12            | 13            | 12                       | 14           |
| Nickel, Ni   | mg/kg | 0.5 | 15            | 12            | 5.4                      | 0.8          |
| Zinc, Zn     | mg/kg | 2   | 27            | 33            | 16                       | 7.8          |



## Mercury in Soil [AN312] Tested: 15/7/2020

|           |       |      | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              |              |
|           |       |      |              |              |              |              |              |
| PARAMETER | UOM   | LOR  | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              | -            |
|           |       |      |              |              |              |              | 8/7/2020     |
| PARAMETER | UOM   | LOR  | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              | -            |
|           |       |      |              |              |              |              | 8/7/2020     |
| PARAMETER | UOM   | LOR  | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              | -            |
|           |       |      |              |              |              |              | 8/7/2020     |
| PARAMETER | UOM   | LOR  | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              | -            |
|           |       |      |              |              |              |              | 8/7/2020     |
| PARAMETER | UOM   | LOR  | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | QD1          | QD2          | BH1_0.1-0.2  | BH1_0.7-0.8  |
|-----------|-------|------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              | -            |
|           |       |      |              |              |              | 8/7/2020     |
| PARAMETER | UOM   | LOR  | SE208655.026 | SE208655.027 | SE208655.031 | SE208655.032 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        |



## Moisture Content [AN002] Tested: 15/7/2020

|            |      |     | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              |              |
|            |      |     |              |              |              |              |              |
| PARAMETER  | UOM  | LOR | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| % Moisture | %w/w | 1   | 12.1         | 18.3         | 13.5         | 11.0         | 8.1          |

|            |      |     | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              | -            |
|            |      |     |              |              |              |              | 8/7/2020     |
| PARAMETER  | UOM  | LOR | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| % Moisture | %w/w | 1   | 13.4         | 9.8          | 11.0         | 7.3          | 10.2         |

|            |      |     | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              |              |
|            |      |     |              |              |              |              | 8/7/2020     |
| PARAMETER  | UOM  | LOR | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| % Moisture | %w/w | 1   | 10.2         | 10.8         | 10.3         | 11.6         | 14.7         |

|            |      |     | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              | -            |
|            |      |     |              |              |              |              | 8/7/2020     |
| PARAMETER  | UOM  | LOR | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| % Moisture | %w/w | 1   | 10.7         | 11.1         | 9.0          | 11.8         | 9.2          |

|            |      |     | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              |              |
|            |      |     |              |              |              |              |              |
| PARAMETER  | UOM  | LOR | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| % Moisture | %w/w | 1   | 9.7          | 10.5         | 15.0         | 9.9          | 18.4         |

|            |      |     | QD1          | QD2          | QTB1         | BH1_0.1-0.2  | BH1_0.7-0.8  |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              | -            |
|            |      |     |              |              |              |              | 8/7/2020     |
| PARAMETER  | UOM  | LOR | SE208655.026 | SE208655.027 | SE208655.029 | SE208655.031 | SE208655.032 |
| % Moisture | %w/w | 1   | 13.3         | 11.3         | <1.0         | 10.7         | 11.0         |



## Fibre Identification in soil [AN602] Tested: 17/7/2020

|                   |         |      | TP7_0.1-0.2  | TP7_1.3-1.4  | TP8_0.1-0.2  | TP8_0.9-1.0  | TP9_0.1-0.2  |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              | -            |
|                   |         |      |              |              |              |              | 8/7/2020     |
| PARAMETER         | UOM     | LOR  | SE208655.001 | SE208655.002 | SE208655.003 | SE208655.004 | SE208655.005 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |

|                   |         |      | TP9_1.2-1.3  | TP10_0.1-0.2 | TP11_0.1-0.2 | TP11_0.8-0.9 | TP12_0.1-0.2 |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              | -            |
|                   |         |      |              |              |              |              | 8/7/2020     |
| PARAMETER         | UOM     | LOR  | SE208655.006 | SE208655.007 | SE208655.008 | SE208655.009 | SE208655.010 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |

|                   |         |      | TP12_0.8-0.9 | TP12_1.7-1.8 | TP13_0.1-0.2 | TP13_1.2-1.3 | TP13_2.0-2.1 |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              | -            |
|                   |         |      | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     | 8/7/2020     |
| PARAMETER         | UOM     | LOR  | SE208655.011 | SE208655.012 | SE208655.013 | SE208655.014 | SE208655.015 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |

|                   |         |      | TP14_0.1-0.2 | TP14_1.5-1.6 | TP15_0.1-0.2 | TP15_1.7-1.8 | TP16_0.1-0.2 |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              | -            |
|                   |         |      |              |              |              |              | 8/7/2020     |
| PARAMETER         | UOM     | LOR  | SE208655.016 | SE208655.017 | SE208655.018 | SE208655.019 | SE208655.020 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |

|                   |         |      | TP17_0.1-0.2 | TP18_0.1-0.2 | TP18_1.8-1.9 | TP19_0.1-0.2 | TP19_1.4-1.5 |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              | -            |
|                   |         |      |              |              |              |              | 8/7/2020     |
| PARAMETER         | UOM     | LOR  | SE208655.021 | SE208655.022 | SE208655.023 | SE208655.024 | SE208655.025 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |

|                   |         |      | BH1_0.1-0.2  | BH1_0.7-0.8   |
|-------------------|---------|------|--------------|---------------|
|                   |         |      | SOIL         | SOIL          |
|                   |         |      |              | -<br>8/7/2020 |
| PARAMETER         | UOM     | LOR  | SE208655.031 | SE208655.032  |
| Asbestos Detected | No unit | -    | No           | No            |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01         |



## SE208655 R0

## VOCs in Water [AN433] Tested: 16/7/2020

|               |      |     | QR1          |
|---------------|------|-----|--------------|
|               |      |     | WATER        |
|               |      |     |              |
| PARAMETER     | UOM  | LOR | SE208655.028 |
| 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         |
| Total Xylenes | µg/L | 1.5 | <1.5         |
| Total BTEX    | µg/L | 3   | <3           |
| Naphthalene   | µg/L | 0.5 | <0.5         |



## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 16/7/2020

|                            |      |     | QR1          |
|----------------------------|------|-----|--------------|
|                            |      |     | WATER        |
|                            |      |     |              |
|                            |      |     | 8/7/2020     |
| PARAMETER                  | UOM  | LOR | SE208655.028 |
| TRH C6-C9                  | µg/L | 40  | <40          |
| Benzene (F0)               | µg/L | 0.5 | <0.5         |
| TRH C6-C10                 | µg/L | 50  | <50          |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50  | <50          |



## SE208655 R0

## TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 15/7/2020

|                                 |      |     | QR1          |
|---------------------------------|------|-----|--------------|
|                                 |      |     | WATER        |
|                                 |      |     |              |
|                                 |      |     | 8/7/2020     |
| PARAMETER                       | UOM  | LOR | SE208655.028 |
| TRH C10-C14                     | µg/L | 50  | <50          |
| TRH C15-C28                     | µg/L | 200 | <200         |
| TRH C29-C36                     | µg/L | 200 | <200         |
| TRH C37-C40                     | µg/L | 200 | <200         |
| TRH >C10-C16                    | µg/L | 60  | <60          |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60  | <60          |
| TRH >C16-C34 (F3)               | µg/L | 500 | <500         |
| TRH >C34-C40 (F4)               | µg/L | 500 | <500         |
| TRH C10-C40                     | µg/L | 320 | <320         |



## SE208655 R0

## Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 15/7/2020

|              |      |     | QR1           |
|--------------|------|-----|---------------|
|              |      |     | WATER         |
|              |      |     | -<br>8/7/2020 |
| PARAMETER    | UOM  | LOR | SE208655.028  |
| Arsenic, As  | µg/L | 1   | <1            |
| Cadmium, Cd  | µg/L | 0.1 | <0.1          |
| Chromium, Cr | µg/L | 1   | <1            |
| Copper, Cu   | µg/L | 1   | <1            |
| Lead, Pb     | µg/L | 1   | <1            |
| Nickel, Ni   | μg/L | 1   | <1            |
| Zinc, Zn     | µg/L | 5   | <5            |



## **ANALYTICAL RESULTS**

### SE208655 R0

#### Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 15/7/2020

|           |      |        | QR1          |
|-----------|------|--------|--------------|
|           |      |        | WATER        |
|           |      |        | -            |
|           |      |        | 8/7/2020     |
| PARAMETER | UOM  | LOR    | SE208655.028 |
| Mercury   | mg/L | 0.0001 | <0.0001      |



| — METHOD ————      | METHODOLOGY SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _ METHOD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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<br>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<br>to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption<br>spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration<br>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<br>and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on<br>USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                                                     |
| AN420              | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH,<br>Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique<br>following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                           |
| AN433              | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.                                                                                                                                                                                                                                                                          |
| AN602              | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned. |
| AN602              | Fibres/material that cannot be 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<br>Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has<br>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 of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | <ul> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable ' fibres):</li> <li>(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</li> </ul> |
|       | (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.                                                                                                                                          |

#### FOOTNOTES -

| *  | NATA accreditation does not cover    |
|----|--------------------------------------|
|    | the performance of this service.     |
| ** | Indicative data, theoretical holding |
|    | time exceeded.                       |

Not analysed.
 NVL Not validated.
 IS Insufficient sample for analysis.
 LNR Sample listed, but not received.

UOM Unit of Measure. LOR Limit of Reporting. ↑↓ Raised/lowered Limit of Reporting.

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: <u>www.sgs.com.au/en-gb/environment-health-and-safety</u>.

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| CLIENT DETAILS                     |                                                               | LABORATORY DETAIL                               | S                                                                     |
|------------------------------------|---------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|
| Contact                            | Li Wei                                                        | Manager                                         | Huong Crawford                                                        |
| Client                             | EI AUSTRALIA                                                  | Laboratory                                      | SGS Alexandria Environmental                                          |
| Address                            | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009            | Address                                         | Unit 16, 33 Maddox St<br>Alexandria NSW 2015                          |
| Telephone<br>Facsimile<br>Email    | 61 2 95160722<br>(Not specified)<br>li.wei@eiaustralia.com.au | Telephone<br>Facsimile<br>Email                 | +61 2 8594 0400<br>+61 2 8594 0499<br>au.environmental.sydney@sgs.com |
| Project<br>Order Number<br>Samples | E24724.E02 2 Mandala Parade, Castle Hill<br>E24724.E02<br>27  | SGS Reference<br>Date Received<br>Date Reported | <b>SE208655 R0</b><br>13 Jul 2020<br>20 Jul 2020                      |

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 Identifier Yusuf Kuthpudin.

SIGNATORIES



Akheeqar BENIAMEEN Chemist

kinty

Ly Kim HA Organic Section Head

Bennet LO Senior Organic Chemist/Metals Chemis

1 tita C ,

Yusuf KUTHPUDIN Asbestos Analyst

Agam.

Kamrul AHSAN Senior Chemist

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| Fibre Identification in soil     Method     AN602 |                     |        |                                    |              |                                              |          |
|---------------------------------------------------|---------------------|--------|------------------------------------|--------------|----------------------------------------------|----------|
| Laboratory<br>Reference                           | Client<br>Reference | Matrix | Sample<br>Description              | Date Sampled | Fibre Identification                         | Est.%w/w |
| SE208655.001                                      | TP7_0.1-0.2         | Soil   | 155g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.002                                      | TP7_1.3-1.4         | Soil   | 207g Clay,<br>Rocks                | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.003                                      | TP8_0.1-0.2         | Soil   | 112g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.004                                      | TP8_0.9-1.0         | Soil   | 175g Clay,<br>Rocks                | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.005                                      | TP9_0.1-0.2         | Soil   | 154g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.006                                      | TP9_1.2-1.3         | Soil   | 185g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.007                                      | TP10_0.1-0.2        | Soil   | 127g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.008                                      | TP11_0.1-0.2        | Soil   | 112g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.009                                      | TP11_0.8-0.9        | Soil   | 164g Sand,<br>Rocks                | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.010                                      | TP12_0.1-0.2        | Soil   | 124g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.011                                      | TP12_0.8-0.9        | Soil   | 160g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.012                                      | TP12_1.7-1.8        | Soil   | 131g Clay,<br>Sand, Soil,<br>Rocks | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.013                                      | TP13_0.1-0.2        | Soil   | 111g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.014                                      | TP13_1.2-1.3        | Soil   | 95g Clay, Sand,<br>Rocks           | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.015                                      | TP13_2.0-2.1        | Soil   | 105g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.016                                      | TP14_0.1-0.2        | Soil   | 95g Clay, Sand,<br>Rocks           | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.017                                      | TP14_1.5-1.6        | Soil   | 103g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.018                                      | TP15_0.1-0.2        | Soil   | 106g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.019                                      | TP15_1.7-1.8        | Soil   | 132g Sand,<br>Rocks, Bitumen       | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.020                                      | TP16_0.1-0.2        | Soil   | 99g Clay, Sand,<br>Rocks           | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.021                                      | TP17_0.1-0.2        | Soil   | 103g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.022                                      | TP18_0.1-0.2        | Soil   | 126g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.023                                      | TP18_1.8-1.9        | Soil   | 125g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.024                                      | TP19_0.1-0.2        | Soil   | 175g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01    |
| SE208655.025                                      | TP19_1.4-1.5        | Soil   | 187g Clay,<br>Rocks                | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.031                                      | BH1_0.1-0.2         | Soil   | 161g Clay,<br>Sand, Rocks          | 08 Jul 2020  | No Asbestos Found                            | <0.01    |
| SE208655.032                                      | BH1_0.7-0.8         | Soil   | 331g Clay,<br>Rocks                | 08 Jul 2020  | No Asbestos Found                            | <0.01    |



RESULTS -

Fibre Identification in soil

Method AN602



### **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<br>Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has<br>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 of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | <ul> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable ' fibres):</li> <li>(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</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul>                                                                                                                                                                                           |

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

(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: <a href="https://www.sgs.com.au/en-gb/environment-health-and-safety">www.sgs.com.au/en-gb/environment-health-and-safety</a>.

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### **CERTIFICATE OF ANALYSIS 246861**

| Client Details |                                                  |
|----------------|--------------------------------------------------|
| Client         | El Australia                                     |
| Attention      | Lab Email                                        |
| Address        | Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009 |

| Sample Details                       |                          |
|--------------------------------------|--------------------------|
| Your Reference                       | E24724. E02, Castle Hill |
| Number of Samples                    | 2 Soil                   |
| Date samples received                | 13/07/2020               |
| Date completed instructions received | 13/07/2020               |

### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

| Report Details                   |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Date results requested by        | 20/07/2020                                                           |
| Date of Issue                    | 17/07/2020                                                           |
| NATA Accreditation Number 290    | 1. This document shall not be reproduced except in full.             |
| Accredited for compliance with I | SO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * |

Results Approved By Hannah Nguyen, Senior Chemist Josh Williams, Senior Chemist Authorised By

Nancy Zhang, Laboratory Manager



| vTRH(C6-C10)/BTEXN in Soil                           |       |            |            |
|------------------------------------------------------|-------|------------|------------|
| Our Reference                                        |       | 246861-1   | 246861-2   |
| Your Reference                                       | UNITS | QT1        | QT2        |
| Date Sampled                                         |       | 8/07/2020  | 8/07/2020  |
| Type of sample                                       |       | Soil       | Soil       |
| Date extracted                                       | -     | 15/07/2020 | 15/07/2020 |
| Date analysed                                        | -     | 17/07/2020 | 17/07/2020 |
| TRH C <sub>6</sub> - C <sub>9</sub>                  | mg/kg | <25        | <25        |
| TRH C <sub>6</sub> - C <sub>10</sub>                 | mg/kg | <25        | <25        |
| vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        | <25        |
| Benzene                                              | mg/kg | <0.2       | <0.2       |
| Toluene                                              | mg/kg | <0.5       | <0.5       |
| Ethylbenzene                                         | mg/kg | <1         | <1         |
| m+p-xylene                                           | mg/kg | <2         | <2         |
| o-Xylene                                             | mg/kg | <1         | <1         |
| naphthalene                                          | mg/kg | <1         | <1         |
| Total +ve Xylenes                                    | mg/kg | <3         | <3         |
| Surrogate aaa-Trifluorotoluene                       | %     | 125        | 121        |

| svTRH (C10-C40) in Soil               |       |            |            |
|---------------------------------------|-------|------------|------------|
| Our Reference                         |       | 246861-1   | 246861-2   |
| Your Reference                        | UNITS | QT1        | QT2        |
| Date Sampled                          |       | 8/07/2020  | 8/07/2020  |
| Type of sample                        |       | Soil       | Soil       |
| Date extracted                        | -     | 15/07/2020 | 15/07/2020 |
| Date analysed                         | -     | 16/07/2020 | 16/07/2020 |
| TRH C <sub>10</sub> - C <sub>14</sub> | mg/kg | <50        | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub> | mg/kg | <100       | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub> | mg/kg | <100       | <100       |
| TRH >C10-C16                          | mg/kg | <50        | <50        |
| TRH >C10 - C16 less Naphthalene (F2)  | mg/kg | <50        | <50        |
| TRH >C <sub>16</sub> -C <sub>34</sub> | mg/kg | <100       | <100       |
| TRH >C <sub>34</sub> -C <sub>40</sub> | mg/kg | <100       | <100       |
| Total +ve TRH (>C10-C40)              | mg/kg | <50        | <50        |
| Surrogate o-Terphenyl                 | %     | 97         | 101        |

| Acid Extractable metals in soil |       |            |            |
|---------------------------------|-------|------------|------------|
| Our Reference                   |       | 246861-1   | 246861-2   |
| Your Reference                  | UNITS | QT1        | QT2        |
| Date Sampled                    |       | 8/07/2020  | 8/07/2020  |
| Type of sample                  |       | Soil       | Soil       |
| Date prepared                   | -     | 15/07/2020 | 15/07/2020 |
| Date analysed                   | -     | 15/07/2020 | 15/07/2020 |
| Arsenic                         | mg/kg | 4          | 8          |
| Cadmium                         | mg/kg | <0.4       | <0.4       |
| Chromium                        | mg/kg | 31         | 29         |
| Copper                          | mg/kg | 26         | 35         |
| Lead                            | mg/kg | 18         | 28         |
| Mercury                         | mg/kg | <0.1       | <0.1       |
| Nickel                          | mg/kg | 18         | 26         |
| Zinc                            | mg/kg | 33         | 72         |

| Moisture       |       |            |            |
|----------------|-------|------------|------------|
| Our Reference  |       | 246861-1   | 246861-2   |
| Your Reference | UNITS | QT1        | QT2        |
| Date Sampled   |       | 8/07/2020  | 8/07/2020  |
| Type of sample |       | Soil       | Soil       |
| Date prepared  | -     | 15/07/2020 | 15/07/2020 |
| Date analysed  | -     | 16/07/2020 | 16/07/2020 |
| Moisture       | %     | 11         | 50         |

| Method ID  | Methodology Summary                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inorg-008  | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.                                                                                                                                                                                                                                                                                                                                                             |
| Metals-020 | Determination of various metals by ICP-AES.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Metals-021 | Determination of Mercury by Cold Vapour AAS.                                                                                                                                                                                                                                                                                                                                                                                                |
| Org-020    | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.<br>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.                                                                                                                                     |
| Org-020    | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.                                                                                                                                                                                                                                                                                                                             |
|            | F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.                                                                                                                                                                                                                                                        |
|            | Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).                                                                                                                                                                                                                                                                |
| Org-023    | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.                                                                                                                                                                                                                                                                                                                                  |
| Org-023    | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.                                                                                                                                                                       |
| Org-023    | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.<br>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes. |

| QUALITY CONT                         |       |     | Du      | Duplicate  |      |      | Spike Recovery % |      |            |      |
|--------------------------------------|-------|-----|---------|------------|------|------|------------------|------|------------|------|
| Test Description                     | Units | PQL | Method  | Blank      | #    | Base | Dup.             | RPD  | LCS-8      | [NT] |
| Date extracted                       | -     |     |         | 15/07/2020 | [NT] |      | [NT]             | [NT] | 15/07/2020 |      |
| Date analysed                        | -     |     |         | 17/07/2020 | [NT] |      | [NT]             | [NT] | 17/07/2020 |      |
| TRH C <sub>6</sub> - C <sub>9</sub>  | mg/kg | 25  | Org-023 | <25        | [NT] |      | [NT]             | [NT] | 90         |      |
| TRH C <sub>6</sub> - C <sub>10</sub> | mg/kg | 25  | Org-023 | <25        | [NT] |      | [NT]             | [NT] | 90         |      |
| Benzene                              | mg/kg | 0.2 | Org-023 | <0.2       | [NT] |      | [NT]             | [NT] | 76         |      |
| Toluene                              | mg/kg | 0.5 | Org-023 | <0.5       | [NT] |      | [NT]             | [NT] | 103        |      |
| Ethylbenzene                         | mg/kg | 1   | Org-023 | <1         | [NT] |      | [NT]             | [NT] | 95         |      |
| m+p-xylene                           | mg/kg | 2   | Org-023 | <2         | [NT] |      | [NT]             | [NT] | 87         |      |
| o-Xylene                             | mg/kg | 1   | Org-023 | <1         | [NT] |      | [NT]             | [NT] | 83         |      |
| naphthalene                          | mg/kg | 1   | Org-023 | <1         | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Surrogate aaa-Trifluorotoluene       | %     |     | Org-023 | 123        | [NT] |      | [NT]             | [NT] | 119        |      |

| QUALITY CO                            |       | Duplicate |         |            | Spike Recovery % |      |      |      |            |      |
|---------------------------------------|-------|-----------|---------|------------|------------------|------|------|------|------------|------|
| Test Description                      | Units | PQL       | Method  | Blank      | #                | Base | Dup. | RPD  | LCS-8      | [NT] |
| Date extracted                        | -     |           |         | 15/07/2020 | [NT]             |      | [NT] | [NT] | 15/07/2020 |      |
| Date analysed                         | -     |           |         | 16/07/2020 | [NT]             |      | [NT] | [NT] | 16/07/2020 |      |
| TRH C <sub>10</sub> - C <sub>14</sub> | mg/kg | 50        | Org-020 | <50        | [NT]             |      | [NT] | [NT] | 130        |      |
| TRH C <sub>15</sub> - C <sub>28</sub> | mg/kg | 100       | Org-020 | <100       | [NT]             |      | [NT] | [NT] | 108        |      |
| TRH C <sub>29</sub> - C <sub>36</sub> | mg/kg | 100       | Org-020 | <100       | [NT]             |      | [NT] | [NT] | 128        |      |
| TRH >C <sub>10</sub> -C <sub>16</sub> | mg/kg | 50        | Org-020 | <50        | [NT]             |      | [NT] | [NT] | 130        |      |
| TRH >C <sub>16</sub> -C <sub>34</sub> | mg/kg | 100       | Org-020 | <100       | [NT]             |      | [NT] | [NT] | 108        |      |
| TRH >C <sub>34</sub> -C <sub>40</sub> | mg/kg | 100       | Org-020 | <100       | [NT]             |      | [NT] | [NT] | 128        |      |
| Surrogate o-Terphenyl                 | %     |           | Org-020 | 104        | [NT]             |      | [NT] | [NT] | 119        |      |

| QUALITY CONT     | Duplicate |     |            |            | Spike Recovery % |      |      |      |            |      |
|------------------|-----------|-----|------------|------------|------------------|------|------|------|------------|------|
| Test Description | Units     | PQL | Method     | Blank      | #                | Base | Dup. | RPD  | LCS-8      | [NT] |
| Date prepared    | -         |     |            | 15/07/2020 | [NT]             | [NT] | [NT] | [NT] | 15/07/2020 |      |
| Date analysed    | -         |     |            | 15/07/2020 | [NT]             | [NT] | [NT] | [NT] | 15/07/2020 |      |
| Arsenic          | mg/kg     | 4   | Metals-020 | <4         | [NT]             | [NT] | [NT] | [NT] | 107        |      |
| Cadmium          | mg/kg     | 0.4 | Metals-020 | <0.4       | [NT]             | [NT] | [NT] | [NT] | 104        |      |
| Chromium         | mg/kg     | 1   | Metals-020 | <1         | [NT]             | [NT] | [NT] | [NT] | 110        |      |
| Copper           | mg/kg     | 1   | Metals-020 | <1         | [NT]             | [NT] | [NT] | [NT] | 108        |      |
| Lead             | mg/kg     | 1   | Metals-020 | <1         | [NT]             | [NT] | [NT] | [NT] | 103        |      |
| Mercury          | mg/kg     | 0.1 | Metals-021 | <0.1       | [NT]             | [NT] | [NT] | [NT] | 109        |      |
| Nickel           | mg/kg     | 1   | Metals-020 | <1         | [NT]             | [NT] | [NT] | [NT] | 109        |      |
| Zinc             | mg/kg     | 1   | Metals-020 | <1         | [NT]             | [NT] | [NT] | [NT] | 109        |      |

| Result Definiti | ons                                       |
|-----------------|-------------------------------------------|
| NT              | Not tested                                |
| NA              | Test not required                         |
| INS             | Insufficient sample for this test         |
| PQL             | Practical Quantitation Limit              |
| <               | Less than                                 |
| >               | Greater than                              |
| RPD             | Relative Percent Difference               |
| LCS             | Laboratory Control Sample                 |
| NS              | Not specified                             |
| NEPM            | National Environmental Protection Measure |
| NR              | Not Reported                              |

| Quality Contro                     | ol Definitions                                                                                                                                                                                                                   |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank                              | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.           |
| Duplicate                          | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.                                                 |
| Matrix Spike                       | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory<br>Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.                                |
| Surrogate Spike                    | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.                          |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

### Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.







| - CLIENT DETAILS |                                                    | LABORATORY DE | TAILS                                        |
|------------------|----------------------------------------------------|---------------|----------------------------------------------|
| Contact          | Li Wei                                             | Manager       | Huong Crawford                               |
| Client           | EI AUSTRALIA                                       | Laboratory    | SGS Alexandria Environmental                 |
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| Email            | li.wei@eiaustralia.com.au                          | Email         | au.environmental.sydney@sgs.com              |
| Project          | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference | SE208846 R0                                  |
| Order Number     | E24724.E02                                         | Date Received | 17/7/2020                                    |
| Samples          | 14                                                 | Date Reported | 24/7/2020                                    |

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 Counter Ravee Sivasubramaniam.

SIGNATORIES

Bennet LO Senior Organic Chemist/Metals Chemist

S. Ravender.

Ravee SIVASUBRAMANIAM Hygiene Team Leader

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#### VOC's in Soil [AN433] Tested: 21/7/2020

|               |       |     | BH2_0.1-0.2  | BH2_1.2-1.3  | BH2_1.6-1.7  | BH3M_0.7-0.8 | BH3M_1.7-1.8 |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     |              |              |              |              |              |
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     |              |              |              |              | -            |
|               |       |     |              | 9/7/2020     | 9/7/2020     | 13/7/2020    | 13/7/2020    |
| PARAMETER     | UOM   | LOR | SE208846.001 | SE208846.002 | SE208846.003 | SE208846.005 | SE208846.006 |
| Benzene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Toluene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Ethylbenzene  | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| m/p-xylene    | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| o-xylene      | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| 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   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |

|               |       |     | BH3M_2.8-2.9 | BH4M_0.3-0.5 | BH4M_1.4-1.5 | BH4M_2.9-3.0 | BH4M_4.9-5.0 |
|---------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|               |       |     |              |              |              |              |              |
|               |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|               |       |     |              |              |              |              | -            |
|               |       |     | 13/7/2020    | 14/7/2020    | 14/7/2020    | 14/7/2020    | 14/7/2020    |
| PARAMETER     | UOM   | LOR | SE208846.007 | SE208846.008 | SE208846.009 | SE208846.010 | SE208846.011 |
| Benzene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Toluene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Ethylbenzene  | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| m/p-xylene    | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| o-xylene      | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| 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   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |

|               |       |     | BH5M_0.1-0.2 | BH5M_1.5-1.6 | BH5M_1.9-2.0 |
|---------------|-------|-----|--------------|--------------|--------------|
|               |       |     | SOIL         | SOIL         | SOIL<br>-    |
|               |       |     |              |              |              |
| PARAMETER     | UOM   | LOR | SE208846.012 | SE208846.013 | SE208846.014 |
| Benzene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         |
| Toluene       | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         |
| Ethylbenzene  | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         |
| m/p-xylene    | mg/kg | 0.2 | <0.2         | <0.2         | <0.2         |
| o-xylene      | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         |
| Total Xylenes | mg/kg | 0.3 | <0.3         | <0.3         | <0.3         |
| Total BTEX    | mg/kg | 0.6 | <0.6         | <0.6         | <0.6         |
| Naphthalene   | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         |



#### Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/7/2020

|                            |       |     | BH2_0.1-0.2  | BH2_1.2-1.3  | BH2_1.6-1.7  | BH3M_0.7-0.8 | BH3M_1.7-1.8 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              |              | -            |
|                            |       |     |              |              |              | 13/7/2020    | 13/7/2020    |
| PARAMETER                  | UOM   | LOR | SE208846.001 | SE208846.002 | SE208846.003 | SE208846.005 | SE208846.006 |
| 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          |

|                            |       |     | BH3M_2.8-2.9 | BH4M_0.3-0.5 | BH4M_1.4-1.5 | BH4M_2.9-3.0 | BH4M_4.9-5.0 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              |              |              |              |
|                            |       |     |              | 14/7/2020    | 14/7/2020    | 14/7/2020    | 14/7/2020    |
| PARAMETER                  | UOM   | LOR | SE208846.007 | SE208846.008 | SE208846.009 | SE208846.010 | SE208846.011 |
| 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          |

|                            |       |     | BH5M_0.1-0.2 | BH5M_1.5-1.6 | BH5M_1.9-2.0 |
|----------------------------|-------|-----|--------------|--------------|--------------|
|                            |       |     |              |              |              |
|                            |       |     | SOIL         | SOIL         | SOIL         |
|                            |       |     |              |              | -            |
|                            |       |     | 16/7/2020    | 16/7/2020    | 16/7/2020    |
| PARAMETER                  | UOM   | LOR | SE208846.012 | SE208846.013 | SE208846.014 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          | <25          |



#### TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/7/2020

|                                 |       |     | BH2_0.1-0.2   | BH2_1.2-1.3   | BH2_1.6-1.7   | BH3M_0.7-0.8   | BH3M_1.7-1.8   |
|---------------------------------|-------|-----|---------------|---------------|---------------|----------------|----------------|
|                                 |       |     | SOIL          | SOIL          | SOIL          | SOIL           | SOIL           |
|                                 |       |     | -<br>9/7/2020 | -<br>9/7/2020 | -<br>9/7/2020 | -<br>13/7/2020 | -<br>13/7/2020 |
| PARAMETER                       | UOM   | LOR | SE208846.001  | SE208846.002  | SE208846.003  | SE208846.005   | SE208846.006   |
| TRH C10-C14                     | mg/kg | 20  | <20           | <20           | <20           | <20            | <20            |
| TRH C15-C28                     | mg/kg | 45  | <45           | <45           | <45           | <45            | <45            |
| TRH C29-C36                     | mg/kg | 45  | <45           | <45           | <45           | <45            | <45            |
| TRH C37-C40                     | mg/kg | 100 | <100          | <100          | <100          | <100           | <100           |
| TRH >C10-C16                    | mg/kg | 25  | <25           | <25           | <25           | <25            | <25            |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25           | <25           | <25           | <25            | <25            |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90           | <90           | <90           | <90            | <90            |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120          | <120          | <120          | <120           | <120           |
| TRH C10-C36 Total               | mg/kg | 110 | <110          | <110          | <110          | <110           | <110           |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210          | <210          | <210          | <210           | <210           |

|                                 |       |     | BH3M_2.8-2.9           | BH4M_0.3-0.5           | BH4M_1.4-1.5           | BH4M_2.9-3.0           | BH4M_4.9-5.0           |
|---------------------------------|-------|-----|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                 |       |     | SOIL<br>-<br>13/7/2020 | SOIL<br>-<br>14/7/2020 | SOIL<br>-<br>14/7/2020 | SOIL<br>-<br>14/7/2020 | SOIL<br>-<br>14/7/2020 |
| PARAMETER                       | UOM   | LOR | SE208846.007           | SE208846.008           | SE208846.009           | SE208846.010           | SE208846.011           |
| TRH C10-C14                     | mg/kg | 20  | <20                    | <20                    | <20                    | <20                    | <20                    |
| TRH C15-C28                     | mg/kg | 45  | <45                    | <45                    | <45                    | <45                    | <45                    |
| TRH C29-C36                     | mg/kg | 45  | <45                    | <45                    | <45                    | <45                    | <45                    |
| TRH C37-C40                     | mg/kg | 100 | <100                   | <100                   | <100                   | <100                   | <100                   |
| TRH >C10-C16                    | mg/kg | 25  | <25                    | <25                    | <25                    | <25                    | <25                    |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                    | <25                    | <25                    | <25                    | <25                    |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                    | <90                    | <90                    | <90                    | <90                    |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                   | <120                   | <120                   | <120                   | <120                   |
| TRH C10-C36 Total               | mg/kg | 110 | <110                   | <110                   | <110                   | <110                   | <110                   |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                   | <210                   | <210                   | <210                   | <210                   |

|                                 |       |     | BH5M_0.1-0.2 | BH5M_1.5-1.6 | BH5M_1.9-2.0 |
|---------------------------------|-------|-----|--------------|--------------|--------------|
|                                 |       |     | SOIL         | SOIL         | SOIL         |
|                                 |       |     |              |              |              |
|                                 |       |     | 16/7/2020    | 16/7/2020    | 16/7/2020    |
| PARAMETER                       | UOM   | LOR | SE208846.012 | SE208846.013 | SE208846.014 |
| TRH C10-C14                     | mg/kg | 20  | <20          | <20          | <20          |
| TRH C15-C28                     | mg/kg | 45  | <45          | <45          | <45          |
| TRH C29-C36                     | mg/kg | 45  | <45          | <45          | <45          |
| TRH C37-C40                     | mg/kg | 100 | <100         | <100         | <100         |
| TRH >C10-C16                    | mg/kg | 25  | <25          | <25          | <25          |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25          | <25          | <25          |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90          | <90          | <90          |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120         | <120         | <120         |
| TRH C10-C36 Total               | mg/kg | 110 | <110         | <110         | <110         |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210         | <210         | <210         |



#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 21/7/2020

|                                                                                                                                                                            |             |     | BH2_0.1-0.2  | BH2_1.2-1.3  | BH2_1.6-1.7  | BH3M_0.7-0.8 | BH3M_1.7-1.8 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                            |             |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                                                                                                                                                            |             |     | -            | -            | -            | -            | -            |
|                                                                                                                                                                            |             |     |              |              |              | 13/7/2020    | 13/7/2020    |
| PARAMETER                                                                                                                                                                  | UOM         | LOR | SE208846.001 | SE208846.002 | SE208846.003 | SE208846.005 | SE208846.006 |
| Naphthalene                                                                                                                                                                | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| 2-methylnaphthalene                                                                                                                                                        | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| 1-methylnaphthalene                                                                                                                                                        | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Acenaphthylene                                                                                                                                                             | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Acenaphthene                                                                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Fluorene                                                                                                                                                                   | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Phenanthrene                                                                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Anthracene                                                                                                                                                                 | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Fluoranthene                                                                                                                                                               | mg/kg       | 0.1 | 0.1          | <0.1         | <0.1         | <0.1         | <0.1         |
| Pyrene                                                                                                                                                                     | mg/kg       | 0.1 | 0.1          | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(a)anthracene                                                                                                                                                         | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Chrysene                                                                                                                                                                   | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(b&j)fluoranthene                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(k)fluoranthene                                                                                                                                                       | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(a)pyrene                                                                                                                                                             | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Indeno(1,2,3-cd)pyrene                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Dibenzo(ah)anthracene                                                                                                                                                      | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(ghi)perylene                                                                                                                                                         | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | 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         |

|                                                                                                                                                                            |             |     | BH3M_2.8-2.9 | BH4M_0.3-0.5 | BH4M_1.4-1.5 | BH4M_2.9-3.0 | BH4M_4.9-5.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|--------------|--------------|--------------|
|                                                                                                                                                                            |             |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                                                                                                                                                                            |             |     | - SUIL       | SOIL         | - SOIL       | - SUIL       | - SOIL       |
|                                                                                                                                                                            |             |     |              | 14/7/2020    | 14/7/2020    | 14/7/2020    | 14/7/2020    |
| PARAMETER                                                                                                                                                                  | UOM         | LOR | SE208846.007 | SE208846.008 | SE208846.009 | SE208846.010 | SE208846.011 |
| Naphthalene                                                                                                                                                                | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| 2-methylnaphthalene                                                                                                                                                        | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| 1-methylnaphthalene                                                                                                                                                        | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Acenaphthylene                                                                                                                                                             | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Acenaphthene                                                                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Fluorene                                                                                                                                                                   | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Phenanthrene                                                                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Anthracene                                                                                                                                                                 | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Fluoranthene                                                                                                                                                               | mg/kg       | 0.1 | <0.1         | 0.1          | <0.1         | <0.1         | <0.1         |
| Pyrene                                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | 0.1          | <0.1         | <0.1         | <0.1         |
| Benzo(a)anthracene                                                                                                                                                         | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Chrysene                                                                                                                                                                   | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(b&j)fluoranthene                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(k)fluoranthene                                                                                                                                                       | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(a)pyrene                                                                                                                                                             | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Indeno(1,2,3-cd)pyrene                                                                                                                                                     | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Dibenzo(ah)anthracene                                                                                                                                                      | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Benzo(ghi)perylene                                                                                                                                                         | mg/kg       | 0.1 | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | 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         |



### **ANALYTICAL RESULTS**

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 21/7/2020 (continued)

|                                                                                                                                        |             |     | BH5M_0.1-0.2              | BH5M_1.5-1.6              | BH5M_1.9-2.0              |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|---------------------------|---------------------------|---------------------------|
|                                                                                                                                        |             |     | SOIL                      | SOIL                      | SOIL                      |
|                                                                                                                                        |             |     | -                         | -                         | -                         |
| PARAMETER                                                                                                                              | UOM         | LOR | 16/7/2020<br>SE208846.012 | 16/7/2020<br>SE208846.013 | 16/7/2020<br>SE208846.014 |
| Naphthalene                                                                                                                            | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      |
| 2-methylnaphthalene                                                                                                                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      |
| 1-methylnaphthalene                                                                                                                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthylene                                                                                                                         | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthene                                                                                                                           | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      |
| Fluorene                                                                                                                               | mg/kg       | 0.1 | 0.2                       | <0.1                      | <0.1                      |
| Phenanthrene                                                                                                                           | mg/kg       | 0.1 | 1.6                       | <0.1                      | <0.1                      |
| Anthracene                                                                                                                             | mg/kg       | 0.1 | 0.4                       | <0.1                      | <0.1                      |
| Fluoranthene                                                                                                                           | mg/kg       | 0.1 | 1.6                       | <0.1                      | <0.1                      |
| Pyrene                                                                                                                                 | mg/kg       | 0.1 | 1.4                       | <0.1                      | <0.1                      |
| Benzo(a)anthracene                                                                                                                     | mg/kg       | 0.1 | 0.6                       | <0.1                      | <0.1                      |
| Chrysene                                                                                                                               | mg/kg       | 0.1 | 0.6                       | <0.1                      | <0.1                      |
| Benzo(b&j)fluoranthene                                                                                                                 | mg/kg       | 0.1 | 0.4                       | <0.1                      | <0.1                      |
| Benzo(k)fluoranthene                                                                                                                   | mg/kg       | 0.1 | 0.4                       | <0.1                      | <0.1                      |
| Benzo(a)pyrene                                                                                                                         | mg/kg       | 0.1 | 0.5                       | <0.1                      | <0.1                      |
| Indeno(1,2,3-cd)pyrene                                                                                                                 | mg/kg       | 0.1 | 0.3                       | <0.1                      | <0.1                      |
| Dibenzo(ah)anthracene                                                                                                                  | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      |
| Benzo(ghi)perylene                                                                                                                     | mg/kg       | 0.1 | 0.2                       | <0.1                      | <0.1                      |
| Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.7</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | 0.7                       | <0.2                      | <0.2                      |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>0.8</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | 0.8                       | <0.3                      | <0.3                      |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.8</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | TEQ (mg/kg) | 0.2 | 0.8                       | <0.2                      | <0.2                      |
| Total PAH (18)                                                                                                                         | mg/kg       | 0.8 | 8.0                       | <0.8                      | <0.8                      |
| Total PAH (NEPM/WHO 16)                                                                                                                | mg/kg       | 0.8 | 8.0                       | <0.8                      | <0.8                      |



### **ANALYTICAL RESULTS**

### SE208846 R0

#### OC Pesticides in Soil [AN420] Tested: 21/7/2020

|                         |       |     | BH2_0.1-0.2  | BH2_1.2-1.3  | BH2_1.6-1.7  | BH3M_0.7-0.8 | BH3M_1.7-1.8 |
|-------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
|                         |       |     |              |              | 0.01         | 0.01         | 00"          |
|                         |       |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                         |       |     |              |              |              | 13/7/2020    | 13/7/2020    |
| PARAMETER               | UOM   | LOR | SE208846.001 | SE208846.002 | SE208846.003 | SE208846.005 | SE208846.006 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Alpha BHC               | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Lindane                 | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Heptachlor              | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Aldrin                  | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Beta BHC                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Delta BHC               | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| o,p'-DDE                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2         | -            | <0.2         | <0.2         | <0.2         |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| p,p'-DDE                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Dieldrin                | mg/kg | 0.2 | <0.2         | -            | <0.2         | <0.2         | <0.2         |
| Endrin                  | mg/kg | 0.2 | <0.2         | -            | <0.2         | <0.2         | <0.2         |
| o,p'-DDD                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| o,p'-DDT                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2         | -            | <0.2         | <0.2         | <0.2         |
| p,p'-DDD                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| p,p'-DDT                | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Methoxychlor            | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Endrin Ketone           | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Isodrin                 | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Mirex                   | mg/kg | 0.1 | <0.1         | -            | <0.1         | <0.1         | <0.1         |
| Total CLP OC Pesticides | mg/kg | 1   | <1           | -            | <1           | <1           | <1           |



#### OC Pesticides in Soil [AN420] Tested: 21/7/2020 (continued)

|                         | BH3M_2.8-2.9 BH4M_0.3-0.5 BH4M |     | BH4M_1.4-1.5              | BH4M_2.9-3.0              | BH4M_4.9-5.0              |                           |                           |
|-------------------------|--------------------------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |                                |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |                                |     |                           |                           |                           |                           | -                         |
| PARAMETER               | UOM                            | LOR | 13/7/2020<br>SE208846.007 | 14/7/2020<br>SE208846.008 | 14/7/2020<br>SE208846.009 | 14/7/2020<br>SE208846.010 | 14/7/2020<br>SE208846.011 |
| Hexachlorobenzene (HCB) | mg/kg                          | 0.1 | <0.1                      | <0.1                      | 3E208846.009              | <0.1                      | SE208846.011              |
| Alpha BHC               | mg/kg                          | 0.1 | <0.1                      | <0.1                      | _                         | <0.1                      | -                         |
| Lindane                 | mg/kg                          | 0.1 | <0.1                      | <0.1                      | _                         | <0.1                      | -                         |
| Heptachlor              | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Aldrin                  | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Beta BHC                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Delta BHC               | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Heptachlor epoxide      | mg/kg                          | 0.1 | <0.1                      | <0.1                      | _                         | <0.1                      | -                         |
| o,p'-DDE                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Alpha Endosulfan        | mg/kg                          | 0.2 | <0.2                      | <0.2                      | _                         | <0.2                      | -                         |
| Gamma Chlordane         | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Alpha Chlordane         | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| trans-Nonachlor         | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| p,p'-DDE                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Dieldrin                | mg/kg                          | 0.2 | <0.2                      | <0.2                      | -                         | <0.2                      | -                         |
| Endrin                  | mg/kg                          | 0.2 | <0.2                      | <0.2                      | -                         | <0.2                      | -                         |
| o,p'-DDD                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| o,p'-DDT                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Beta Endosulfan         | mg/kg                          | 0.2 | <0.2                      | <0.2                      | -                         | <0.2                      | -                         |
| p,p'-DDD                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| p,p'-DDT                | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Endosulfan sulphate     | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Endrin Aldehyde         | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Methoxychlor            | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Endrin Ketone           | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Isodrin                 | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Mirex                   | mg/kg                          | 0.1 | <0.1                      | <0.1                      | -                         | <0.1                      | -                         |
| Total CLP OC Pesticides | mg/kg                          | 1   | <1                        | <1                        | -                         | <1                        | -                         |



#### OC Pesticides in Soil [AN420] Tested: 21/7/2020 (continued)

|                         |       |     | BH5M_0.1-0.2              | BH5M_1.5-1.6              | BH5M_1.9-2.0              |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     |                           |                           |                           |
| PARAMETER               | UOM   | LOR | 16/7/2020<br>SE208846.012 | 16/7/2020<br>SE208846.013 | 16/7/2020<br>SE208846.014 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Alpha BHC               | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Lindane                 | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Heptachlor              | mg/kg | 0.1 | <0.1                      | _                         | <0.1                      |
| Aldrin                  | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Beta BHC                | mg/kg | 0.1 | <0.1                      | _                         | <0.1                      |
| Delta BHC               | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| o,p'-DDE                | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2                      | -                         | <0.2                      |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| p,p'-DDE                | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Dieldrin                | mg/kg | 0.2 | <0.2                      | -                         | <0.2                      |
| Endrin                  | mg/kg | 0.2 | <0.2                      | -                         | <0.2                      |
| o,p'-DDD                | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| o,p'-DDT                | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2                      | -                         | <0.2                      |
| p,p'-DDD                | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| p,p'-DDT                | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Methoxychlor            | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Endrin Ketone           | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Isodrin                 | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Mirex                   | mg/kg | 0.1 | <0.1                      | -                         | <0.1                      |
| Total CLP OC Pesticides | mg/kg | 1   | <1                        | -                         | <1                        |



#### OP Pesticides in Soil [AN420] Tested: 21/7/2020

|                                   |       |     | BH2_0.1-0.2           | BH2_1.6-1.7           | BH3M_0.7-0.8           | BH3M_1.7-1.8           | BH3M_2.8-2.9           |
|-----------------------------------|-------|-----|-----------------------|-----------------------|------------------------|------------------------|------------------------|
|                                   |       |     | SOIL<br>-<br>9/7/2020 | SOIL<br>-<br>9/7/2020 | SOIL<br>-<br>13/7/2020 | SOIL<br>-<br>13/7/2020 | SOIL<br>-<br>13/7/2020 |
| PARAMETER                         | UOM   | LOR | SE208846.001          | SE208846.003          | SE208846.005           | SE208846.006           | SE208846.007           |
| 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                   |

|                                   |       |     | BH4M_0.3-0.5              | BH4M_2.9-3.0              | BH5M_0.1-0.2              | BH5M_1.9-2.0              |
|-----------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|
|                                   |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                   |       |     |                           |                           |                           | -                         |
| PARAMETER                         | UOM   | LOR | 14/7/2020<br>SE208846.008 | 14/7/2020<br>SE208846.010 | 16/7/2020<br>SE208846.012 | 16/7/2020<br>SE208846.014 |
|                                   |       |     |                           |                           |                           |                           |
| 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: 21/7/2020

|                        |       |     | BH2_0.1-0.2           | BH2_1.2-1.3           | BH2_1.6-1.7           | BH3M_0.7-0.8           | BH3M_1.7-1.8           |
|------------------------|-------|-----|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
|                        |       |     | SOIL<br>-<br>9/7/2020 | SOIL<br>-<br>9/7/2020 | SOIL<br>-<br>9/7/2020 | SOIL<br>-<br>13/7/2020 | SOIL<br>-<br>13/7/2020 |
| PARAMETER              | UOM   | LOR | SE208846.001          | SE208846.002          | SE208846.003          | SE208846.005           | SE208846.006           |
| 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                     |

|                        |       |     | BH3M_2.8-2.9                           | BH4M_0.3-0.5                           | BH4M_1.4-1.5                           | BH4M_2.9-3.0                           | BH4M_4.9-5.0                           |
|------------------------|-------|-----|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| PARAMETER              | UOM   | LOR | SOIL<br>-<br>13/7/2020<br>SE208846.007 | SOIL<br>-<br>14/7/2020<br>SE208846.008 | SOIL<br>-<br>14/7/2020<br>SE208846.009 | SOIL<br>-<br>14/7/2020<br>SE208846.010 | SOIL<br>-<br>14/7/2020<br>SE208846.011 |
| Arochlor 1016          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1221          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1232          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1242          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1248          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1254          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1260          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1262          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Arochlor 1268          | mg/kg | 0.2 | <0.2                                   | <0.2                                   | -                                      | <0.2                                   | -                                      |
| Total PCBs (Arochlors) | mg/kg | 1   | <1                                     | <1                                     | -                                      | <1                                     | -                                      |

|                        |       |     | BH5M_0.1-0.2 | BH5M_1.5-1.6 | BH5M_1.9-2.0 |
|------------------------|-------|-----|--------------|--------------|--------------|
|                        |       |     | SOIL         | SOIL         | SOIL         |
|                        |       |     |              |              | -            |
|                        |       |     | 16/7/2020    | 16/7/2020    | 16/7/2020    |
| PARAMETER              | UOM   | LOR | SE208846.012 | SE208846.013 | SE208846.014 |
| Arochlor 1016          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1221          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1232          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1242          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1248          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1254          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1260          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1262          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Arochlor 1268          | mg/kg | 0.2 | <0.2         | -            | <0.2         |
| Total PCBs (Arochlors) | mg/kg | 1   | <1           | -            | <1           |



### **ANALYTICAL RESULTS**

### SE208846 R0

#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/7/2020

|              |       |     | BH2_0.1-0.2   | BH2_1.2-1.3   | BH2_1.6-1.7   | BH3M_0.1-0.2   | BH3M_0.7-0.8   |
|--------------|-------|-----|---------------|---------------|---------------|----------------|----------------|
|              |       |     | SOIL          | SOIL          | SOIL          | SOIL           | SOIL           |
|              |       |     | -<br>9/7/2020 | -<br>9/7/2020 | -<br>9/7/2020 | -<br>13/7/2020 | -<br>13/7/2020 |
| PARAMETER    | UOM   | LOR | SE208846.001  | SE208846.002  | SE208846.003  | SE208846.004   | SE208846.005   |
| Arsenic, As  | mg/kg | 1   | 4             | 7             | 14            | 5              | 3              |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3          | <0.3          | <0.3          | <0.3           | <0.3           |
| Chromium, Cr | mg/kg | 0.5 | 14            | 25            | 9.8           | 24             | 16             |
| Copper, Cu   | mg/kg | 0.5 | 21            | 2.3           | 2.9           | 9.2            | 16             |
| Lead, Pb     | mg/kg | 1   | 11            | 12            | 21            | 14             | 16             |
| Nickel, Ni   | mg/kg | 0.5 | 17            | 2.9           | <0.5          | 6.9            | 10             |
| Zinc, Zn     | mg/kg | 2   | 27            | 6.9           | 2.4           | 21             | 26             |

|              |       |     | BH3M_1.7-1.8   | BH3M_2.8-2.9   | BH4M_0.3-0.5   | BH4M_1.4-1.5   | BH4M_2.9-3.0   |
|--------------|-------|-----|----------------|----------------|----------------|----------------|----------------|
|              |       |     | SOIL           | SOIL           | SOIL           | SOIL           | SOIL           |
|              |       |     | -<br>13/7/2020 | -<br>13/7/2020 | -<br>14/7/2020 | -<br>14/7/2020 | -<br>14/7/2020 |
| PARAMETER    | UOM   | LOR | SE208846.006   | SE208846.007   | SE208846.008   | SE208846.009   | SE208846.010   |
| Arsenic, As  | mg/kg | 1   | 4              | 2              | 6              | 2              | 5              |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3           | <0.3           | <0.3           | <0.3           | <0.3           |
| Chromium, Cr | mg/kg | 0.5 | 13             | 13             | 15             | 6.3            | 18             |
| Copper, Cu   | mg/kg | 0.5 | 12             | 14             | 19             | 2.8            | 5.3            |
| Lead, Pb     | mg/kg | 1   | 17             | 5              | 16             | 6              | 10             |
| Nickel, Ni   | mg/kg | 0.5 | 7.8            | 3.5            | 8.5            | 0.9            | 3.6            |
| Zinc, Zn     | mg/kg | 2   | 32             | 17             | 35             | 5.3            | 9.5            |

|              |       |     | BH4M_4.9-5.0   | BH5M_0.1-0.2   | BH5M_1.5-1.6   | BH5M_1.9-2.0   |
|--------------|-------|-----|----------------|----------------|----------------|----------------|
|              |       |     | SOIL           | SOIL           | SOIL           | SOIL           |
|              |       |     | -<br>14/7/2020 | -<br>16/7/2020 | -<br>16/7/2020 | -<br>16/7/2020 |
| PARAMETER    | UOM   | LOR | SE208846.011   | SE208846.012   | SE208846.013   | SE208846.014   |
| Arsenic, As  | mg/kg | 1   | 2              | 4              | 6              | 4              |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3           | <0.3           | <0.3           | <0.3           |
| Chromium, Cr | mg/kg | 0.5 | 4.5            | 9.5            | 11             | 15             |
| Copper, Cu   | mg/kg | 0.5 | 2.7            | 14             | 14             | 3.8            |
| Lead, Pb     | mg/kg | 1   | 7              | 11             | 11             | 8              |
| Nickel, Ni   | mg/kg | 0.5 | 4.0            | 7.2            | 16             | 2.3            |
| Zinc, Zn     | mg/kg | 2   | 25             | 22             | 24             | 6.8            |



#### Mercury in Soil [AN312] Tested: 21/7/2020

|           |       |      | BH2_0.1-0.2  | BH2_1.2-1.3  | BH2_1.6-1.7  | BH3M_0.1-0.2 | BH3M_0.7-0.8 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              | -            |
|           |       |      |              |              |              | 13/7/2020    | 13/7/2020    |
| PARAMETER | UOM   | LOR  | SE208846.001 | SE208846.002 | SE208846.003 | SE208846.004 | SE208846.005 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | BH3M_1.7-1.8 | BH3M_2.8-2.9 | BH4M_0.3-0.5 | BH4M_1.4-1.5 | BH4M_2.9-3.0 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              |              | -            |
|           |       |      |              |              | 14/7/2020    | 14/7/2020    | 14/7/2020    |
| PARAMETER | UOM   | LOR  | SE208846.006 | SE208846.007 | SE208846.008 | SE208846.009 | SE208846.010 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        |

|           |       |      | BH4M_4.9-5.0 | BH5M_0.1-0.2 | BH5M_1.5-1.6 | BH5M_1.9-2.0 |
|-----------|-------|------|--------------|--------------|--------------|--------------|
|           |       |      | SOIL         | SOIL         | SOIL         | SOIL         |
|           |       |      |              |              |              | -            |
|           |       |      | 14/7/2020    |              |              | 16/7/2020    |
| PARAMETER | UOM   | LOR  | SE208846.011 | SE208846.012 | SE208846.013 | SE208846.014 |
| Mercury   | mg/kg | 0.05 | <0.05        | <0.05        | <0.05        | <0.05        |



#### Moisture Content [AN002] Tested: 21/7/2020

|            |      |     | BH2_0.1-0.2  | BH2_1.2-1.3  | BH2_1.6-1.7  | BH3M_0.1-0.2 | BH3M_0.7-0.8 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              |              |
|            |      |     |              |              |              | 13/7/2020    | 13/7/2020    |
| PARAMETER  | UOM  | LOR | SE208846.001 | SE208846.002 | SE208846.003 | SE208846.004 | SE208846.005 |
| % Moisture | %w/w | 1   | 13.4         | 31.4         | 24.9         | 12.9         | 12.8         |

|            |      |     | BH3M_1.7-1.8 | BH3M_2.8-2.9 | BH4M_0.3-0.5 | BH4M_1.4-1.5 | BH4M_2.9-3.0 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              |              | -            |
|            |      |     |              |              | 14/7/2020    | 14/7/2020    | 14/7/2020    |
| PARAMETER  | UOM  | LOR | SE208846.006 | SE208846.007 | SE208846.008 | SE208846.009 | SE208846.010 |
| % Moisture | %w/w | 1   | 14.2         | 13.3         | 11.1         | 8.4          | 10.5         |

|            |      |     | BH4M_4.9-5.0 | BH5M_0.1-0.2 | BH5M_1.5-1.6 | BH5M_1.9-2.0 |
|------------|------|-----|--------------|--------------|--------------|--------------|
|            |      |     | SOIL         | SOIL         | SOIL         | SOIL         |
|            |      |     |              |              |              | -            |
|            |      |     | 14/7/2020    |              |              | 16/7/2020    |
| PARAMETER  | UOM  | LOR | SE208846.011 | SE208846.012 | SE208846.013 | SE208846.014 |
| % Moisture | %w/w | 1   | 6.6          | 11.4         | 14.3         | 9.1          |



#### Fibre Identification in soil [AN602] Tested: 23/7/2020

|                   |         |      | BH2_0.1-0.2  | BH2_1.6-1.7  | BH3M_0.1-0.2 | BH3M_0.7-0.8 | BH3M_1.7-1.8 |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              |              |
|                   |         |      |              |              |              | 13/7/2020    | 13/7/2020    |
| PARAMETER         | UOM     | LOR  | SE208846.001 | SE208846.003 | SE208846.004 | SE208846.005 | SE208846.006 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |

|                   |         |      | BH3M_2.8-2.9 | BH4M_0.3-0.5 | BH4M_2.9-3.0 | BH5M_0.1-0.2 | BH5M_1.9-2.0 |
|-------------------|---------|------|--------------|--------------|--------------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         | SOIL         | SOIL         | SOIL         |
|                   |         |      |              |              |              |              | -            |
|                   |         |      |              | 14/7/2020    | 14/7/2020    |              | 16/7/2020    |
| PARAMETER         | UOM     | LOR  | SE208846.007 | SE208846.008 | SE208846.010 | SE208846.012 | SE208846.014 |
| Asbestos Detected | No unit | -    | No           | No           | No           | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |



| METHOD      | METHODOLOGY SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| AN002       | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.                                                                                                                                                                                                                                                                                                                                                               |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.                                                                                                                                                                                                                                                                                                                                                                                          |
| AN040       | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AN312       | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid,<br>mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury<br>vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser.<br>Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA<br>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<br>and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on<br>USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                                                                    |
| AN420       | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                                |
| AN433       | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.                                                                                                                                                                                                                                                                                         |
| AN602       | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM)<br>in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal<br>identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a<br>reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient<br>`clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of<br>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<br>Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has<br>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 of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             | <ul> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):</li> <li>(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</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul>                                                                                                                                                                                                           |



#### FOOTNOTES

NATA accreditation does not cover the performance of this service. \*\*

Indicative data, theoretical holding time exceeded

Not analysed. NVL Not validated. IS I NR

Insufficient sample for analysis. Sample listed, but not received. UOM LOR î↓

Unit of Measure. Limit of Reporting. Raised/lowered Limit of Reporting.

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.sqs.com.au/en-gb/environment-health-and-safety

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| CLIENT DETAILS                     |                                                               | LABORATORY DETAI                                | LS                                                                    |
|------------------------------------|---------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|
| Contact                            | Li Wei                                                        | Manager                                         | Huong Crawford                                                        |
| Client                             | EI AUSTRALIA                                                  | Laboratory                                      | SGS Alexandria Environmental                                          |
| Address                            | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009            | Address                                         | Unit 16, 33 Maddox St<br>Alexandria NSW 2015                          |
| Telephone<br>Facsimile<br>Email    | 61 2 95160722<br>(Not specified)<br>li.wei@eiaustralia.com.au | Telephone<br>Facsimile<br>Email                 | +61 2 8594 0400<br>+61 2 8594 0499<br>au.environmental.sydney@sgs.com |
| Project<br>Order Number<br>Samples | E24724.E02 2 Mandala Parade, Castle Hill<br>E24724.E02<br>10  | SGS Reference<br>Date Received<br>Date Reported | <b>SE208846 R0</b><br>17 Jul 2020<br>24 Jul 2020                      |

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.

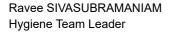
Asbestos analysed by Approved Counter Ravee Sivasubramaniam.

SIGNATORIES -

Roi

Bennet LO Senior Organic Chemist/Metals Chemis

S. Ravender.



SGS Australia Pty Ltd ABN 44 000 964 278 Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC

Kamrul AHSAN

Senior Chemist

Alexandria NSW 2015 Alexandria NSW 2015

2015 Australia 2015 Australia

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**Organic Section Head** 

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## ANALYTICAL REPORT

| Fibre Identifica        | tion in soil        |        |                           |              | Method AN602                                 |           |
|-------------------------|---------------------|--------|---------------------------|--------------|----------------------------------------------|-----------|
| Laboratory<br>Reference | Client<br>Reference | Matrix | Sample<br>Description     | Date Sampled | Fibre Identification                         | Est.%w/w* |
| SE208846.001            | BH2_0.1-0.2         | Soil   | 170g Clay,<br>Sand, Rocks | 09 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.003            | BH2_1.6-1.7         | Soil   | 116g Clay                 | 09 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.004            | BH3M_0.1-0.2        | Soil   | 245g Clay,<br>Sand, Rocks | 13 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.005            | BH3M_0.7-0.8        | Soil   | 272g Clay,<br>Sand, Rocks | 13 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.006            | BH3M_1.7-1.8        | Soil   | 271g Clay,<br>Sand, Rocks | 13 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.007            | BH3M_2.8-2.9        | Soil   | 294g Clay,<br>Sand, Rocks | 13 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.008            | BH4M_0.3-0.5        | Soil   | 385g Clay,<br>Sand, Rocks | 14 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01     |
| SE208846.010            | BH4M_2.9-3.0        | Soil   | 238g Clay,<br>Sand, Rocks | 14 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.012            | BH5M_0.1-0.2        | Soil   | 222g Clay,<br>Sand, Rocks | 16 Jul 2020  | No Asbestos Found                            | <0.01     |
| SE208846.014            | BH5M_1.9-2.0        | Soil   | 141g Clay, Sand           | 16 Jul 2020  | No Asbestos Found                            | <0.01     |



## **METHOD SUMMARY**

| METHOD | METHODOLOGY SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN602  | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM)<br>in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal<br>identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a<br>reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient<br>`clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of<br>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<br>Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has<br>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 of 0.1 g/kg"(<0.01%w/w)where AN602 section 4.5 of this method has been followed, and if-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|        | <ul> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable ' fibres):</li> <li>(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</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul>                                                                                                                                                                                                          |

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

(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: <u>www.sgs.com.au/en-gb/environment-health-and-safety</u>.

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## **ANALYTICAL REPORT**





| CLIENT DETAILS |                                                    | LABORATORY DE | TAILS                                        |
|----------------|----------------------------------------------------|---------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager       | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory    | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address       | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone     | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile     | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email         | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference | SE209082 R0                                  |
| Order Number   | E24724.E02                                         | Date Received | 23/7/2020                                    |
| Samples        | 4                                                  | Date Reported | 30/7/2020                                    |

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 Identifier Yusuf Kuthpudin.

SIGNATORIES

Bennet LO Senior Organic Chemist/Metals Chemist

9

Yusuf KUTHPUDIN Asbestos Analyst

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Kamrul AHSAN Senior Chemist

kinty

Ly Kim HA Organic Section Head



### VOC's in Soil [AN433] Tested: 24/7/2020

|               |       |     | BH6_0.1-0.2    | BH6_1.4-1.5    |
|---------------|-------|-----|----------------|----------------|
|               |       |     | SOIL           | SOIL           |
|               |       |     | -<br>20/7/2020 | -<br>20/7/2020 |
| PARAMETER     | UOM   | LOR | SE209082.001   | SE209082.004   |
| Benzene       | mg/kg | 0.1 | <0.1           | <0.1           |
| Toluene       | mg/kg | 0.1 | <0.1           | <0.1           |
| Ethylbenzene  | mg/kg | 0.1 | <0.1           | <0.1           |
| m/p-xylene    | mg/kg | 0.2 | <0.2           | <0.2           |
| o-xylene      | mg/kg | 0.1 | <0.1           | <0.1           |
| Total Xylenes | mg/kg | 0.3 | <0.3           | <0.3           |
| Total BTEX    | mg/kg | 0.6 | <0.6           | <0.6           |
| Naphthalene   | mg/kg | 0.1 | <0.1           | <0.1           |



#### Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/7/2020

|                            |       |     | BH6_0.1-0.2  | BH6_1.4-1.5  |
|----------------------------|-------|-----|--------------|--------------|
|                            |       |     | SOIL         | SOIL         |
|                            |       |     |              |              |
|                            |       |     | 20/7/2020    | 20/7/2020    |
| PARAMETER                  | UOM   | LOR | SE209082.001 | SE209082.004 |
| TRH C6-C9                  | mg/kg | 20  | <20          | <20          |
| Benzene (F0)               | mg/kg | 0.1 | <0.1         | <0.1         |
| TRH C6-C10                 | mg/kg | 25  | <25          | <25          |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25          | <25          |



#### TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 24/7/2020

|                                 |       |     | BH6_0.1-0.2  | BH6_1.4-1.5  |
|---------------------------------|-------|-----|--------------|--------------|
|                                 |       |     | SOIL         | SOIL         |
|                                 |       |     |              |              |
| PARAMETER                       | UOM   | LOR | SE209082.001 | SE209082.004 |
| TRH C10-C14                     | mg/kg | 20  | <20          | <20          |
| TRH C15-C28                     | mg/kg | 45  | <45          | <45          |
| TRH C29-C36                     | mg/kg | 45  | <45          | <45          |
| TRH C37-C40                     | mg/kg | 100 | <100         | <100         |
| TRH >C10-C16                    | mg/kg | 25  | <25          | <25          |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25          | <25          |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90          | <90          |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120         | <120         |
| TRH C10-C36 Total               | mg/kg | 110 | <110         | <110         |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210         | <210         |



### SE209082 R0

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/7/2020

|                                                                                                                            |             |     | BH6_0.1-0.2  | BH6_1.4-1.5  |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------|--------------|
|                                                                                                                            |             |     | SOIL         | SOIL         |
|                                                                                                                            |             |     |              |              |
|                                                                                                                            |             |     | 20/7/2020    | 20/7/2020    |
| PARAMETER                                                                                                                  | UOM         | LOR | SE209082.001 | SE209082.004 |
| Naphthalene                                                                                                                | mg/kg       | 0.1 | <0.1         | <0.1         |
| 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 | <0.1         | <0.1         |
| Acenaphthene                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         |
| Fluorene                                                                                                                   | mg/kg       | 0.1 | <0.1         | <0.1         |
| Phenanthrene                                                                                                               | mg/kg       | 0.1 | <0.1         | <0.1         |
| Anthracene                                                                                                                 | mg/kg       | 0.1 | <0.1         | <0.1         |
| Fluoranthene                                                                                                               | mg/kg       | 0.1 | 0.2          | <0.1         |
| Pyrene                                                                                                                     | mg/kg       | 0.1 | 0.2          | <0.1         |
| 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 | <0.1         | <0.1         |
| 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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3         | <0.3         |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2         | <0.2         |
| Total PAH (18)                                                                                                             | mg/kg       | 0.8 | <0.8         | <0.8         |
| Total PAH (NEPM/WHO 16)                                                                                                    | mg/kg       | 0.8 | <0.8         | <0.8         |



### SE209082 R0

#### OC Pesticides in Soil [AN420] Tested: 24/7/2020

|                         |       |     | BH6_0.1-0.2               | BH6_1.4-1.5               |
|-------------------------|-------|-----|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      |
|                         |       |     |                           |                           |
| PARAMETER               | UOM   | LOR | 20/7/2020<br>SE209082.001 | 20/7/2020<br>SE209082.004 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Alpha BHC               | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Lindane                 | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Heptachlor              | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Aldrin                  | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Beta BHC                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Delta BHC               | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1                      | <0.1                      |
| o,p'-DDE                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2                      | <0.2                      |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1                      | <0.1                      |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1                      | <0.1                      |
| p,p'-DDE                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Dieldrin                | mg/kg | 0.2 | <0.2                      | <0.2                      |
| Endrin                  | mg/kg | 0.2 | <0.2                      | <0.2                      |
| o,p'-DDD                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| o,p'-DDT                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2                      | <0.2                      |
| p,p'-DDD                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| p,p'-DDT                | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Methoxychlor            | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Endrin Ketone           | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Isodrin                 | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Mirex                   | mg/kg | 0.1 | <0.1                      | <0.1                      |
| Total CLP OC Pesticides | mg/kg | 1   | <1                        | <1                        |



#### OP Pesticides in Soil [AN420] Tested: 24/7/2020

|                                   |       |     | BH6_0.1-0.2  | BH6_1.4-1.5  |
|-----------------------------------|-------|-----|--------------|--------------|
|                                   |       |     | SOIL         | SOIL         |
|                                   |       |     |              |              |
|                                   |       |     | 20/7/2020    | 20/7/2020    |
| PARAMETER                         | UOM   | LOR | SE209082.001 | SE209082.004 |
| Dichlorvos                        | mg/kg | 0.5 | <0.5         | <0.5         |
| Dimethoate                        | mg/kg | 0.5 | <0.5         | <0.5         |
| Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5         | <0.5         |
| Fenitrothion                      | mg/kg | 0.2 | <0.2         | <0.2         |
| Malathion                         | mg/kg | 0.2 | <0.2         | <0.2         |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2         | <0.2         |
| Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2         | <0.2         |
| Bromophos Ethyl                   | mg/kg | 0.2 | <0.2         | <0.2         |
| Methidathion                      | mg/kg | 0.5 | <0.5         | <0.5         |
| Ethion                            | mg/kg | 0.2 | <0.2         | <0.2         |
| Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2         | <0.2         |
| Total OP Pesticides*              | mg/kg | 1.7 | <1.7         | <1.7         |



#### PCBs in Soil [AN420] Tested: 24/7/2020

|                        |       |     | BH6_0.1-0.2  | BH6_1.4-1.5  |
|------------------------|-------|-----|--------------|--------------|
|                        |       |     | SOIL         | SOIL         |
|                        |       |     | -            | -            |
|                        |       |     | 20/7/2020    | 20/7/2020    |
| PARAMETER              | UOM   | LOR | SE209082.001 | SE209082.004 |
| 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 | <0.2         | <0.2         |
| Arochlor 1262          | mg/kg | 0.2 | <0.2         | <0.2         |
| Arochlor 1268          | mg/kg | 0.2 | <0.2         | <0.2         |
| Total PCBs (Arochlors) | mg/kg | 1   | <1           | <1           |



#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 27/7/2020

|              |       |     | BH6_0.1-0.2  | BH6_1.4-1.5    |
|--------------|-------|-----|--------------|----------------|
|              |       |     | SOIL         | SOIL           |
|              |       |     | - 20/7/2020  | -<br>20/7/2020 |
| PARAMETER    | UOM   | LOR | SE209082.001 | SE209082.004   |
| Arsenic, As  | mg/kg | 1   | 4            | 1              |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3         | <0.3           |
| Chromium, Cr | mg/kg | 0.5 | 12           | 2.5            |
| Copper, Cu   | mg/kg | 0.5 | 15           | 0.6            |
| Lead, Pb     | mg/kg | 1   | 23           | 2              |
| Nickel, Ni   | mg/kg | 0.5 | 9.9          | <0.5           |
| Zinc, Zn     | mg/kg | 2   | 45           | <2.0           |



#### Mercury in Soil [AN312] Tested: 27/7/2020

|           |       |      | BH6_0.1-0.2    | BH6_1.4-1.5    |
|-----------|-------|------|----------------|----------------|
|           |       |      | SOIL           | SOIL           |
|           |       |      | -<br>20/7/2020 | -<br>20/7/2020 |
| PARAMETER | UOM   | LOR  | SE209082.001   | SE209082.004   |
| Mercury   | mg/kg | 0.05 | <0.05          | <0.05          |



#### Moisture Content [AN002] Tested: 24/7/2020

|            |      |     | BH6_0.1-0.2    | BH6_1.4-1.5    |
|------------|------|-----|----------------|----------------|
|            |      |     | SOIL           | SOIL           |
|            |      |     | -<br>20/7/2020 | -<br>20/7/2020 |
| PARAMETER  | UOM  | LOR | SE209082.001   | SE209082.004   |
| % Moisture | %w/w | 1   | 14.5           | 5.5            |



#### Fibre Identification in soil [AN602] Tested: 29/7/2020

|                   |         |      | BH6_0.1-0.2  | BH6_1.4-1.5  |
|-------------------|---------|------|--------------|--------------|
|                   |         |      | SOIL         | SOIL         |
|                   |         |      |              |              |
|                   |         |      |              |              |
| PARAMETER         | UOM     | LOR  | SE209082.001 | SE209082.004 |
| Asbestos Detected | No unit | -    | No           | No           |
| Estimated Fibres* | %w/w    | 0.01 | <0.01        | <0.01        |



| - 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<br>basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of<br>moisture will take some time in a drying oven for complete removal of water.                                                                                                                                                                                                                                                                                                                                                         |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.                                                                                                                                                                                                                                                                                                                                                                                          |
| AN040       | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AN312       | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid,<br>mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury<br>vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser.<br>Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA<br>3112/3500                                                                                                                                                                                                        |
| AN403       | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.                  |
| AN403       | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.                                                                                                                                                                                                     |
| AN403       | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.                                                                                                                                                                                  |
| AN420       | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                                                                          |
| AN420       | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                                |
| AN433       | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.                                                                                                                                                                                                                                                                                         |
| AN602       | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM)<br>in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal<br>identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a<br>reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient<br>`clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of<br>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<br>Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has<br>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 of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             | <ul> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):</li> <li>(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</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul>                                                                                                                                                                                                           |



#### FOOTNOTES

\* NATA accreditation does not cover the performance of this service. \*\*

Indicative data, theoretical holding time exceeded.

Not analysed. NVL Not validated. IS LNR

Insufficient sample for analysis. Sample listed, but not received. UOM LOR î↓

Unit of Measure. Limit of Reporting. Raised/lowered Limit of Reporting.

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

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

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

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

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

Note that in terms of units of radioactivity:

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

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

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

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## **ANALYTICAL REPORT**



| CLIENT DETAILS                     |                                                               | LABORATORY DETAIL                               | LS                                                                    |
|------------------------------------|---------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|
| Contact                            | Li Wei                                                        | Manager                                         | Huong Crawford                                                        |
| Client                             | EI AUSTRALIA                                                  | Laboratory                                      | SGS Alexandria Environmental                                          |
| Address                            | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009            | Address                                         | Unit 16, 33 Maddox St<br>Alexandria NSW 2015                          |
| Telephone<br>Facsimile<br>Email    | 61 2 95160722<br>(Not specified)<br>li.wei@eiaustralia.com.au | Telephone<br>Facsimile<br>Email                 | +61 2 8594 0400<br>+61 2 8594 0499<br>au.environmental.sydney@sgs.com |
| Project<br>Order Number<br>Samples | E24724.E02 2 Mandala Parade, Castle Hill<br>E24724.E02<br>2   | SGS Reference<br>Date Received<br>Date Reported | <b>SE209082 R0</b><br>23 Jul 2020<br>30 Jul 2020                      |

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 Identifier Yusuf Kuthpudin.

SIGNATORIES

Roi

Bennet LO Senior Organic Chemist/Metals Chemis

L. Ait Aun Su

Yusuf KUTHPUDIN Asbestos Analyst



Kamrul AHSAN Senior Chemist

kmln

Ly Kim HA Organic Section Head

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# ANALYTICAL REPORT

| Fibre Identifica        | tion in soil        |        |                             |              |                                              | Method | AN602 |           |
|-------------------------|---------------------|--------|-----------------------------|--------------|----------------------------------------------|--------|-------|-----------|
| Laboratory<br>Reference | Client<br>Reference | Matrix | Sample<br>Description       | Date Sampled | Fibre Identification                         |        |       | Est.%w/w* |
| SE209082.001            | BH6_0.1-0.2         | Soil   | 181g<br>Clay,Sand,Rock<br>s | 20 Jul 2020  | No Asbestos Found<br>Organic Fibres Detected |        |       | <0.01     |
| SE209082.004            | BH6_1.4-1.5         | Soil   | 130g Sand                   | 20 Jul 2020  | No Asbestos Found                            |        |       | <0.01     |

30/07/2020



## **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<br>Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has<br>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 of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | <ul> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable ' fibres):</li> <li>(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</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul>                                                                                                                                                                                           |

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

(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: <u>www.sgs.com.au/en-gb/environment-health-and-safety</u>.

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# **ANALYTICAL REPORT**





| CLIENT DETAILS |                                                    | LABORATORY DE | TAILS                                        |
|----------------|----------------------------------------------------|---------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager       | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory    | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address       | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone     | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile     | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email         | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference | SE208846A R0                                 |
| Order Number   | E24724.E02                                         | Date Received | 21/7/2020                                    |
| Samples        | 17                                                 | Date Reported | 28/7/2020                                    |

COMMENTS

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

SIGNATORIES

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ion

Shane MCDERMOTT Inorganic/Metals Chemist

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#### Soluble Anions (1:5) in Soil by Ion Chromatography [AN245] Tested: 24/7/2020

|           |       |      | BH3M_2.8-2.9  | BH4M_4.9-5.0  | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|-----------|-------|------|---------------|---------------|---------------|---------------|---------------|
|           |       |      | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|           |       |      |               |               |               |               | -             |
|           |       |      |               | 14/7/2020     |               |               | 16/7/2020     |
| PARAMETER | UOM   | LOR  | SE208846A.007 | SE208846A.011 | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| Chloride  | mg/kg | 0.25 | 22            | 10            | 18            | 16            | 6.5           |
| Sulfate   | mg/kg | 5    | 92            | 64            | 110           | 130           | 83            |



### SE208846A R0

#### Alkalinity in Soil [AN002/AN135] Tested: 23/7/2020

|                                         |       |     | BH3M_2.8-2.9  | BH4M_4.9-5.0  | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|-----------------------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                                         |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                                         |       |     |               |               |               |               |               |
|                                         |       |     |               | 14/7/2020     |               |               |               |
| PARAMETER                               | UOM   | LOR | SE208846A.007 | SE208846A.011 | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| Bicarbonate Alkalinity as HCO3 in Soil* | mg/kg | 25  | 63            | 35            | 26            | 31            | 53            |
| Carbonate Alkalinity as CO3 in Soil*    | mg/kg | 25  | 140           | <25           | <25           | <25           | <25           |
| Hydroxide Alkalinity as OH in Soil*     | mg/kg | 25  | <25           | <25           | <25           | <25           | <25           |
| Total Alkalinity as CaCO3 in Soil*      | mg/kg | 25  | 280           | 28            | <25           | 25            | 44            |



### SE208846A R0

#### pH in soil (1:5) [AN101] Tested: 24/7/2020

|           |          |     | BH3M_2.8-2.9  | BH4M_4.9-5.0  | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|-----------|----------|-----|---------------|---------------|---------------|---------------|---------------|
|           |          |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|           |          |     |               |               |               |               |               |
|           |          |     |               | 14/7/2020     |               |               |               |
| PARAMETER | UOM      | LOR | SE208846A.007 | SE208846A.011 | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| pH        | pH Units | 0.1 | 9.4           | 6.1           | 4.6           | 4.7           | 5.5           |



### SE208846A R0

#### Conductivity and TDS by Calculation - Soil [AN106] Tested: 24/7/2020

|                                                |       |     | BH3M_2.8-2.9  | BH4M_4.9-5.0  | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|------------------------------------------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|                                                |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|                                                |       |     |               |               |               |               |               |
|                                                |       |     |               | 14/7/2020     |               |               |               |
| PARAMETER                                      | UOM   | LOR | SE208846A.007 | SE208846A.011 | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1   | 130           | 47            | 73            | 85            | 60            |



### SE208846A R0

#### Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 24/7/2020

|                                    |          |      | BH3M_2.8-2.9           | BH4M_4.9-5.0           | BH2_1.9-2.0            | BH2_2.9-3.0            | BH4M_4.4-4.5           |
|------------------------------------|----------|------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                    |          |      | SOIL<br>-<br>13/7/2020 | SOIL<br>-<br>14/7/2020 | SOIL<br>-<br>16/7/2020 | SOIL<br>-<br>16/7/2020 | SOIL<br>-<br>16/7/2020 |
| PARAMETER                          | UOM      | LOR  | SE208846A.007          | SE208846A.011          | SE208846A.015          | SE208846A.016          | SE208846A.017          |
| Exchangeable Sodium, Na            | mg/kg    | 2    | 84                     | 140                    | 96                     | 98                     | 190                    |
| Exchangeable Sodium, Na            | meq/100g | 0.01 | 0.37                   | 0.63                   | 0.42                   | 0.42                   | 0.81                   |
| Exchangeable Sodium Percentage*    | %        | 0.1  | 2.2                    | 27.3                   | 11.7                   | 3.4                    | 27.5                   |
| Exchangeable Potassium, K          | mg/kg    | 2    | 110                    | 95                     | 79                     | 70                     | 99                     |
| Exchangeable Potassium, K          | meq/100g | 0.01 | 0.27                   | 0.24                   | 0.20                   | 0.18                   | 0.25                   |
| Exchangeable Potassium Percentage* | %        | 0.1  | 1.6                    | 10.6                   | 5.6                    | 1.4                    | 8.6                    |
| Exchangeable Calcium, Ca           | mg/kg    | 2    | 3200                   | 120                    | 380                    | 2200                   | 120                    |
| Exchangeable Calcium, Ca           | meq/100g | 0.01 | 16                     | 0.59                   | 1.9                    | 11                     | 0.59                   |
| Exchangeable Calcium Percentage*   | %        | 0.1  | 95.0                   | 25.9                   | 53.5                   | 87.8                   | 20.2                   |
| Exchangeable Magnesium, Mg         | mg/kg    | 2    | 24                     | 100                    | 130                    | 110                    | 160                    |
| Exchangeable Magnesium, Mg         | meq/100g | 0.02 | 0.20                   | 0.83                   | 1.0                    | 0.93                   | 1.3                    |
| Exchangeable Magnesium Percentage* | %        | 0.1  | 1.2                    | 36.1                   | 29.2                   | 7.4                    | 43.6                   |
| Cation Exchange Capacity           | meq/100g | 0.02 | 17                     | 2.3                    | 3.6                    | 13                     | 2.9                    |



### SE208846A R0

#### Soil Texture (AS4419) [AN051] Tested: 23/7/2020

|                         |         |     | BH3M_2.8-2.9    | BH4M_4.9-5.0  | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|-------------------------|---------|-----|-----------------|---------------|---------------|---------------|---------------|
|                         |         |     | SOIL            | SOIL          | SOIL          | SOIL          | SOIL          |
|                         |         |     |                 |               |               |               | -             |
|                         |         |     |                 | 14/7/2020     |               |               | 16/7/2020     |
| PARAMETER               | UOM     | LOR | SE208846A.007   | SE208846A.011 | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| Texture Classification* | No unit | 1   | Sandy Clay Loam | Loamy Sand    | Sandy Clay    | Sandy Clay    | Loamy Sand    |



### SE208846A R0

#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 23/7/2020

|               |       |     | BH3M_2.8-2.9  | BH4M_4.9-5.0  | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|---------------|-------|-----|---------------|---------------|---------------|---------------|---------------|
|               |       |     | SOIL          | SOIL          | SOIL          | SOIL          | SOIL          |
|               |       |     | -             | -             | -             | -             | -             |
|               |       |     |               | 14/7/2020     |               |               |               |
| PARAMETER     | UOM   | LOR | SE208846A.007 | SE208846A.011 | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| Calcium, Ca   | mg/kg | 5   | 3400          | 66            | 1900          | 4400          | 1100          |
| Magnesium, Mg | mg/kg | 5   | 650           | 120           | 590           | 1300          | 350           |
| Sodium, Na    | mg/kg | 5   | 130           | 170           | 170           | 320           | 290           |
| Potassium, K  | mg/kg | 10  | 240           | 280           | 280           | 340           | 320           |
| Manganese, Mn | mg/kg | 1   | 47            | 5             | 51            | 110           | 13            |



#### Moisture Content [AN002] Tested: 24/7/2020

|            |      |     | BH2_1.9-2.0   | BH2_2.9-3.0   | BH4M_4.4-4.5  |
|------------|------|-----|---------------|---------------|---------------|
|            |      |     | SOIL          | SOIL          | SOIL          |
|            |      |     |               |               |               |
|            |      |     |               |               |               |
| PARAMETER  | UOM  | LOR | SE208846A.015 | SE208846A.016 | SE208846A.017 |
| % Moisture | %w/w | 1   | 14.6          | 14.7          | 10.1          |



| METHOD      | METHODOLOGY SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN002/AN135 | Alkalinity (and forms of) by Titration: The sample is extracted 1to 5 in deionised water and the extract titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135                                                                                                                                                                                        |
| AN002       | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.                                                                                                                                                                                                                                                                                    |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.                                                                                                                                                                                                                                                                                                               |
| AN040       | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.                                                                                                                                                                                                                                                                                                                                                                              |
| AN051       | A small sample of soil is kneaded with water and then pressed out into a ribbon. The behaviour of this ribbon is used to classify the soil into one of the texture classes in AS 4419.                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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+.                                                                                                                                                                                                                                              |
| AN106       | Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as $\mu$ mhos/cm or $\mu$ S/cm @ 25°C. For soils, an extract of as received sample with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Salinity can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. Reference APHA 2510 B. |
| AN122       | Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.                                                        |
| AN122       | The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below :                                                                                                                                                                                                                                                                                                                                                                                         |
|             | ESP < 6%non-sodicESP 6-15%sodicESP >15%strongly sodic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|             | Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AN245       | Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, CI, NO2, NO3 and SO4 are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B                                                                                                  |



#### FOOTNOTES

\* NATA accreditation does not cover the performance of this service. \*\*

Indicative data, theoretical holding time exceeded.

Not analysed. NVL Not validated. IS LNR

Insufficient sample for analysis. Sample listed, but not received. UOM Unit of Measure. LOR î↓

Limit of Reporting. Raised/lowered Limit of Reporting.

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

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

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

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

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

Note that in terms of units of radioactivity:

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

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

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

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## **ANALYTICAL REPORT**





| – CLIENT DETAILS |                                                    | LABORATORY DE | LABORATORY DETAILS                           |  |  |  |  |  |
|------------------|----------------------------------------------------|---------------|----------------------------------------------|--|--|--|--|--|
| Contact          | Li Wei                                             | Manager       | Huong Crawford                               |  |  |  |  |  |
| Client           | EI AUSTRALIA                                       | Laboratory    | SGS Alexandria Environmental                 |  |  |  |  |  |
| Address          | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address       | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |  |  |  |  |  |
| Telephone        | 61 2 95160722                                      | Telephone     | +61 2 8594 0400                              |  |  |  |  |  |
| Facsimile        | (Not specified)                                    | Facsimile     | +61 2 8594 0499                              |  |  |  |  |  |
| Email            | li.wei@eiaustralia.com.au                          | Email         | au.environmental.sydney@sgs.com              |  |  |  |  |  |
| Project          | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference | SE209379 R0                                  |  |  |  |  |  |
| Order Number     | E24724.E02                                         | Date Received | 30/7/2020                                    |  |  |  |  |  |
| Samples          | 7                                                  | Date Reported | 6/8/2020                                     |  |  |  |  |  |
|                  |                                                    |               |                                              |  |  |  |  |  |

COMMENTS

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

SIGNATORIES

Dong LIANG Metals/Inorganics Team Leader

kmln

Ly Kim HA Organic Section Head

SGS Australia Pty Ltd ABN 44 000 964 278

Environment, Health and Safety

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### SE209379 R0

### VOCs in Water [AN433] Tested: 3/8/2020

| NACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENACENA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |      |     | BH3M-a | BH4M-a | BH5M  | GWQD 1 | GWQR 1 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------|-----|--------|--------|-------|--------|--------|
| Particip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |      |     | WATER  | WATER  | WATER | WATER  | WATER  |
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| Tay iff TSAup1up1up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3up3 </td <td></td> <td></td> <td>1.5</td> <td>&lt;1.5</td> <td>&lt;1.5</td> <td>&lt;1.5</td> <td>&lt;1.5</td> <td>&lt;1.5</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |      | 1.5 | <1.5   | <1.5   | <1.5  | <1.5   | <1.5   |
| DebsDebsDefsDefsDefsDefsDefsDefsDefsWay make (Chousehen)Lak34.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.034.03 </td <td>Total BTEX</td> <td></td> <td>3</td> <td>&lt;3</td> <td>&lt;3</td> <td>&lt;3</td> <td>&lt;3</td> <td>&lt;3</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total BTEX                                |      | 3   | <3     | <3     | <3    | <3     | <3     |
| DecompositionLat.9494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494949494 </td <td>Naphthalene</td> <td>µg/L</td> <td>0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Naphthalene                               | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | <0.5   | <0.5   |
| Way denombanUpd0.00.0.30.0.30.0.30.0.30.0.3Banombanc1.940.80.00.0.30.0.30.0.30.0.30.0.3Choobance1.940.10.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.30.0.3<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Dichlorodifluoromethane (CFC-12)          |      | 5   | <5     | <5     | <5    | -      | -      |
| Benersentantindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindind<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chloromethane                             | µg/L | 5   | <5     | <5     | <5    | -      | -      |
| Benersheminitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinitinit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vinyl chloride (Chloroethene)             | µg/L | 0.3 | <0.3   | <0.3   | <0.3  | -      | -      |
| Chroning<br>DisplayJGGGGGGDisplayJJGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG <td>Bromomethane</td> <td></td> <td>10</td> <td>&lt;10</td> <td>&lt;10</td> <td>&lt;10</td> <td>-</td> <td>-</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bromomethane                              |      | 10  | <10    | <10    | <10   | -      | -      |
| Tandomipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipicipic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chloroethane                              |      | 5   | <5     | <5     | <5    | -      | -      |
| indententppl544.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Trichlorofluoromethane                    | µg/L | 1   | <1     | <1     | <1    | -      | -      |
| indententppl544.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.644.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Acetone (2-propanone)                     |      | 10  | <10    | <10    | <10   | -      | -      |
| 11 discoversionindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindindi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |      | 5   | <5     | <5     | <5    | -      | -      |
| Dichlorophen (helphyne chlaride)pdlqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqdqd<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,1-dichloroethene                        |      | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Aly charine         ppl         2         d2         d2 <thd2< th="">         d2         d2</thd2<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Acrylonitrile                             | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Carbon shundle         ppl         2         42         42         42         42         42           trans 1.2 debrom hand         ipl         0.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Dichloromethane (Methylene chloride)      | µg/L | 5   | <5     | <5     | <5    | -      | -      |
| tame12.doltonombane         upl         0.5         405         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5         40.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Allyl chloride                            | µg/L | 2   | <2     | <2     | <2    | -      | -      |
| MBE (Methyletheluylether)         ipd         2         4         4         4.4         1.4           1.1.4.dbriotesthare         ipd         0.5         0.5         0.45         0.45         0.45           MBK (2 bulknown)         ipd         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40         0.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Carbon disulfide                          | µg/L | 2   | <2     | <2     | <2    | -      | -      |
| 1.1.4ichtoreshane       µgl       0.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | trans-1,2-dichloroethene                  | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Nyn         upl.         10         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400 <td>MtBE (Methyl-tert-butyl ether)</td> <td>µg/L</td> <td>2</td> <td>&lt;2</td> <td>&lt;2</td> <td>&lt;2</td> <td>-</td> <td>-</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MtBE (Methyl-tert-butyl ether)            | µg/L | 2   | <2     | <2     | <2    | -      | -      |
| MER (2 butanon)         jul         10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,1-dichloroethane                        | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| bit         bit<         bit<         bit<         bit<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vinyl acetate                             | µg/L | 10  | <10    | <10    | <10   | -      | -      |
| Bronchloromethane         ppl         0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5         0.0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MEK (2-butanone)                          | µg/L | 10  | <10    | <10    | <10   | -      | -      |
| Chrodom (THM)         ipil         0.5         9.2         9.0         1.7         1           2.2-dechoropopane         ipil         0.5         0.05         0.05         0.05         0.05         0.05           1.2-dechorophane         ipil         0.5         0.05         0.05         0.05         0.05         0.05         0.05           1.1-dichorophane         ipil         0.5         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | cis-1,2-dichloroethene                    | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 2.2         4.0         6.0         6.0         6.0         6.0         6.0           1.2.4         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05         4.05 <td>Bromochloromethane</td> <td>µg/L</td> <td>0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>-</td> <td>-</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Bromochloromethane                        | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 1.2.ddnkorethane       µµl,       0.5 <ul> <li><ul> <li><ul>&lt;<ul> <li><ul>&lt;<ul> <li><ul> <li><ul>&lt;<ul></ul></ul></li></ul></li></ul></ul></li></ul></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul> | Chloroform (THM)                          | µg/L | 0.5 | 9.2    | 39     | 1.7   | -      | -      |
| 1.1.1-thickborechane         µpL         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5           1.1-dichboropopene         µpL         0.5         <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2,2-dichloropropane                       | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 1.1-dichloropropene         µµL         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5 <td>1,2-dichloroethane</td> <td>µg/L</td> <td>0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>-</td> <td>-</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,2-dichloroethane                        | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Carbon tetrachoniscie         jupl         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,1,1-trichloroethane                     | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Dironomethane         µgl         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1,1-dichloropropene                       | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 1.2-dchloropropane         µg/L         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5 <td>Carbon tetrachloride</td> <td>µg/L</td> <td>0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>&lt;0.5</td> <td>-</td> <td>-</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Carbon tetrachloride                      | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Trichloroethylene,TCE)µgL0.5<0.0<0.0<0.0<0.0<0.0<0.02.nitopropaneµgL100<100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Dibromomethane                            | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 2-htropropaneµg/L100<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,2-dichloropropane                       | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Bronodichoromethane (THM)         µg/L         0.5         2.3         6.6         <0.5            MIBK (4-methyl-2-pentanone)         µg/L         0.5         <5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Trichloroethene (Trichloroethylene, TCE)  | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| MBK (4-methyl-2-pentanone)         μp/L         5         5         6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2-nitropropane                            | µg/L | 100 | <100   | <100   | <100  | -      | -      |
| is1.3.dichloropropene       µg/L       0.5       <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bromodichloromethane (THM)                | µg/L | 0.5 | 2.3    | 6.6    | <0.5  | -      | -      |
| trans-1.3-dichloropropene         µg/L         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MIBK (4-methyl-2-pentanone)               | µg/L | 5   | <5     | <5     | <5    | -      | -      |
| 1,1.2-trichloroethaneµg/L0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5 <th< td=""><td>cis-1,3-dichloropropene</td><td>µg/L</td><td>0.5</td><td>&lt;0.5</td><td>&lt;0.5</td><td>&lt;0.5</td><td>-</td><td>-</td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | cis-1,3-dichloropropene                   | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 13-dichloropropane         µgL         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | trans-1,3-dichloropropene                 | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Dibromochloromethane (THM)         µg/L         0.5         0.6         1.6         <0.5         <0.6         1.6         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,1,2-trichloroethane                     | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 2-hexanone (MBK)         µg/L         5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5         <5<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,3-dichloropropane                       | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 1,2-dibromoethane (EDB)       µg/L       0.5       <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Dibromochloromethane (THM)                | µg/L | 0.5 | 0.6    | 1.6    | <0.5  | -      | -      |
| Tetrachloroethene (Perchloroethylene, PCE)         µg/L         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5 </td <td>2-hexanone (MBK)</td> <td>µg/L</td> <td>5</td> <td>&lt;5</td> <td>&lt;5</td> <td>&lt;5</td> <td>-</td> <td>-</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2-hexanone (MBK)                          | µg/L | 5   | <5     | <5     | <5    | -      | -      |
| 1,1,2-tetrachloroethane       µg/L       0.5       <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,2-dibromoethane (EDB)                   | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Chorobenzene         µg/L         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Bromoform (THM)         µg/L         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,1,1,2-tetrachloroethane                 | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| cis1.4-dichloro-2-butene         µg/L         1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1 <th<< td=""><td>Chlorobenzene</td><td>µg/L</td><td>0.5</td><td>&lt;0.5</td><td>&lt;0.5</td><td>&lt;0.5</td><td>-</td><td>-</td></th<<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Chlorobenzene                             | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| Styrene (Vinyl benzene)         µg/L         0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Bromoform (THM)                           | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| 1,1,2,2-tetrachloroethane     µg/L     0.5     <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cis-1,4-dichloro-2-butene                 | µg/L | 1   | <1     | <1     | <1    | -      | -      |
| 1,2,3-trichloropropane µg/L 0.5 <0.5 <0.5 <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Styrene (Vinyl benzene)                   | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,1,2,2-tetrachloroethane                 | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
| trans-1,4-dichloro-2-butene µg/L 1 <1 <1 <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,2,3-trichloropropane                    | µg/L | 0.5 | <0.5   | <0.5   | <0.5  | -      | -      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | trans-1,4-dichloro-2-butene               | µg/L | 1   | <1     | <1     | <1    | -      | -      |



### VOCs in Water [AN433] Tested: 3/8/2020 (continued)

|                             |      |     |              | 1            | 1            | 1            |              |
|-----------------------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|                             |      |     | BH3M-a       | BH4M-a       | BH5M         | GWQD 1       | GWQR 1       |
|                             |      |     | WATER        | WATER        | WATER        | WATER        | WATER        |
|                             |      |     |              |              |              |              |              |
|                             |      |     |              |              |              |              |              |
| PARAMETER                   | UOM  | LOR | SE209379.001 | SE209379.002 | SE209379.003 | SE209379.004 | SE209379.005 |
| Isopropylbenzene (Cumene)   | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| Bromobenzene                | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| n-propylbenzene             | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 2-chlorotoluene             | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 4-chlorotoluene             | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,3,5-trimethylbenzene      | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| tert-butylbenzene           | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,2,4-trimethylbenzene      | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| sec-butylbenzene            | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,3-dichlorobenzene         | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,4-dichlorobenzene         | µg/L | 0.3 | <0.3         | <0.3         | <0.3         | -            | -            |
| p-isopropyltoluene          | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,2-dichlorobenzene         | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| n-butylbenzene              | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,2-dibromo-3-chloropropane | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,2,4-trichlorobenzene      | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| Hexachlorobutadiene         | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| 1,2,3-trichlorobenzene      | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | -            | -            |
| Total VOC                   | µg/L | 10  | 13           | 48           | <10          | -            | -            |



### SE209379 R0

### VOCs in Water [AN433] Tested: 3/8/2020 (continued)

|                                           |              |     | GWTB 1         | GWTS 1         |
|-------------------------------------------|--------------|-----|----------------|----------------|
|                                           |              |     |                |                |
|                                           |              |     | WATER          | WATER          |
|                                           |              |     | -<br>29/7/2020 | -<br>29/7/2020 |
| PARAMETER                                 | UOM          | LOR | SE209379.006   | SE209379.007   |
| Benzene                                   | μg/L         | 0.5 | <0.5           | [99%]          |
| Toluene                                   | μg/L         | 0.5 | <0.5           | [99%]          |
| Ethylbenzene                              | μg/L         | 0.5 | <0.5           | [99%]          |
| m/p-xylene                                | μg/L         | 1   | <1             | [98%]          |
| o-xylene                                  | μg/L         | 0.5 | <0.5           | [99%]          |
| Total Xylenes                             | μg/L         | 1.5 | <1.5           | -              |
| Total BTEX                                | µg/L         | 3   | <3             | -              |
| Naphthalene                               | µg/L         | 0.5 | <0.5           | -              |
| Dichlorodifluoromethane (CFC-12)          | µg/L         | 5   | -              | -              |
| Chloromethane                             | μg/L         | 5   | -              | -              |
| Vinyl chloride (Chloroethene)             | µg/L         | 0.3 | -              | -              |
| Bromomethane                              | μg/L         | 10  | -              | -              |
| Chloroethane                              | μg/L         | 5   | -              | -              |
| Trichlorofluoromethane                    | μg/L         | 1   | -              | -              |
| Acetone (2-propanone)                     | µg/L         | 10  | -              | -              |
| Iodomethane                               | µg/L         | 5   | -              | -              |
| 1,1-dichloroethene                        | µg/L         | 0.5 | -              | -              |
| Acrylonitrile                             | µg/L         | 0.5 | -              | -              |
| Dichloromethane (Methylene chloride)      | µg/L         | 5   | -              | -              |
| Allyl chloride                            | µg/L         | 2   | -              | -              |
| Carbon disulfide                          | µg/L         | 2   | -              | -              |
| trans-1,2-dichloroethene                  | µg/L         | 0.5 | -              | -              |
| MtBE (Methyl-tert-butyl ether)            | µg/L         | 2   | -              | -              |
| 1,1-dichloroethane                        | µg/L         | 0.5 | -              | -              |
| Vinyl acetate                             | µg/L         | 10  | -              | -              |
| MEK (2-butanone)                          | µg/L         | 10  | -              | -              |
| cis-1,2-dichloroethene Bromochloromethane | µg/L         | 0.5 | -              | -              |
|                                           | μg/L         |     |                |                |
| Chloroform (THM)<br>2,2-dichloropropane   | μg/L<br>μg/L | 0.5 | -              | -              |
| 1,2-dichloroethane                        | μg/L         | 0.5 | -              | _              |
| 1,1,1-trichloroethane                     | µg/L         | 0.5 | -              |                |
| 1,1-dichloropropene                       | μg/L         | 0.5 |                | _              |
| Carbon tetrachloride                      | μg/L         | 0.5 |                | _              |
| Dibromomethane                            | μg/L         | 0.5 | -              | _              |
| 1,2-dichloropropane                       | μg/L         | 0.5 |                | -              |
| Trichloroethene (Trichloroethylene,TCE)   | μg/L         | 0.5 | _              | _              |
| 2-nitropropane                            | μg/L         | 100 | -              | -              |
| Bromodichloromethane (THM)                | μg/L         | 0.5 | -              | -              |
| MIBK (4-methyl-2-pentanone)               | μg/L         | 5   | -              | -              |
| cis-1,3-dichloropropene                   | μg/L         | 0.5 | -              | -              |
| trans-1,3-dichloropropene                 | μg/L         | 0.5 | -              | -              |
| 1,1,2-trichloroethane                     | µg/L         | 0.5 | -              | -              |
| 1,3-dichloropropane                       | μg/L         | 0.5 | -              | -              |
| Dibromochloromethane (THM)                | µg/L         | 0.5 | -              | -              |
| 2-hexanone (MBK)                          | µg/L         | 5   | -              | -              |
| 1,2-dibromoethane (EDB)                   | µg/L         | 0.5 | -              | -              |
| Tetrachloroethene (Perchloroethylene,PCE) | µg/L         | 0.5 | -              | -              |
| 1,1,1,2-tetrachloroethane                 | µg/L         | 0.5 | -              | -              |
| Chlorobenzene                             | µg/L         | 0.5 | -              | -              |
| Bromoform (THM)                           | µg/L         | 0.5 | -              | -              |
| cis-1,4-dichloro-2-butene                 | µg/L         | 1   | -              | -              |
| Styrene (Vinyl benzene)                   | µg/L         | 0.5 | -              | -              |
| 1,1,2,2-tetrachloroethane                 | µg/L         | 0.5 | -              | -              |
| 1,2,3-trichloropropane                    | µg/L         | 0.5 | -              | -              |
| trans-1,4-dichloro-2-butene               | µg/L         | 1   | -              | -              |
|                                           |              |     |                |                |



### VOCs in Water [AN433] Tested: 3/8/2020 (continued)

|                             |      |     | GWTB 1         | GWTS 1         |
|-----------------------------|------|-----|----------------|----------------|
|                             |      |     | WATER          | WATER          |
|                             |      |     | -<br>29/7/2020 | -<br>29/7/2020 |
| PARAMETER                   | UOM  | LOR | SE209379.006   | SE209379.007   |
| Isopropylbenzene (Cumene)   | µg/L | 0.5 | -              | -              |
| Bromobenzene                | µg/L | 0.5 | -              | -              |
| n-propylbenzene             | µg/L | 0.5 | -              | -              |
| 2-chlorotoluene             | μg/L | 0.5 | -              | -              |
| 4-chlorotoluene             | µg/L | 0.5 | -              | -              |
| 1,3,5-trimethylbenzene      | µg/L | 0.5 | -              | -              |
| tert-butylbenzene           | µg/L | 0.5 | -              | -              |
| 1,2,4-trimethylbenzene      | µg/L | 0.5 | -              | -              |
| sec-butylbenzene            | µg/L | 0.5 | -              | -              |
| 1,3-dichlorobenzene         | µg/L | 0.5 | -              | -              |
| 1,4-dichlorobenzene         | µg/L | 0.3 | -              | -              |
| p-isopropyltoluene          | µg/L | 0.5 | -              | -              |
| 1,2-dichlorobenzene         | μg/L | 0.5 | -              | -              |
| n-butylbenzene              | μg/L | 0.5 | -              | -              |
| 1,2-dibromo-3-chloropropane | µg/L | 0.5 | -              | -              |
| 1,2,4-trichlorobenzene      | μg/L | 0.5 | -              | -              |
| Hexachlorobutadiene         | µg/L | 0.5 | -              | -              |
| 1,2,3-trichlorobenzene      | μg/L | 0.5 | -              | -              |
| Total VOC                   | µg/L | 10  | -              | -              |



### SE209379 R0

### Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 3/8/2020

|                            |      |     | BH3M-a       | BH4M-a       | BH5M         | GWQD 1       | GWQR 1       |
|----------------------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|                            |      |     | WATER        | WATER        | WATER        | WATER        | WATER        |
|                            |      |     |              |              |              |              |              |
|                            |      |     |              |              |              |              |              |
| PARAMETER                  | UOM  | LOR | SE209379.001 | SE209379.002 | SE209379.003 | SE209379.004 | SE209379.005 |
| TRH C6-C9                  | µg/L | 40  | <40          | 46           | <40          | <40          | <40          |
| Benzene (F0)               | µg/L | 0.5 | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| TRH C6-C10                 | µg/L | 50  | <50          | 52           | <50          | <50          | <50          |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50  | <50          | 52           | <50          | <50          | <50          |



# **ANALYTICAL RESULTS**

# SE209379 R0

#### TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested:

| sted: 31/7/2020 |
|-----------------|
|-----------------|

|                                 |      |     | BH3M-a       | BH4M-a       | BH5M         | GWQD 1       | GWQR 1       |
|---------------------------------|------|-----|--------------|--------------|--------------|--------------|--------------|
|                                 |      |     |              |              |              |              |              |
|                                 |      |     | WATER        | WATER        | WATER        | WATER        | WATER        |
|                                 |      |     |              |              |              |              | -            |
|                                 |      |     | 29/7/2020    | 29/7/2020    | 29/7/2020    | 29/7/2020    | 29/7/2020    |
| PARAMETER                       | UOM  | LOR | SE209379.001 | SE209379.002 | SE209379.003 | SE209379.004 | SE209379.005 |
| TRH C10-C14                     | µg/L | 50  | <50          | <50          | 76           | <50          | <50          |
| TRH C15-C28                     | µg/L | 200 | <200         | <200         | <200         | <200         | <200         |
| TRH C29-C36                     | µg/L | 200 | <200         | <200         | <200         | <200         | <200         |
| TRH C37-C40                     | µg/L | 200 | <200         | <200         | <200         | <200         | <200         |
| TRH >C10-C16                    | µg/L | 60  | <60          | <60          | 76           | <60          | <60          |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60  | <60          | <60          | 76           | <60          | <60          |
| TRH >C16-C34 (F3)               | µg/L | 500 | <500         | <500         | <500         | <500         | <500         |
| TRH >C34-C40 (F4)               | µg/L | 500 | <500         | <500         | <500         | <500         | <500         |
| TRH C10-C40                     | µg/L | 320 | <320         | <320         | <320         | <320         | <320         |



#### PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 31/7/2020

|                        |      |     | BH3M-a       | BH4M-a       | BH5M         |
|------------------------|------|-----|--------------|--------------|--------------|
|                        |      |     | WATER        | WATER        | WATER        |
|                        |      |     |              |              |              |
|                        |      |     |              |              |              |
| PARAMETER              | UOM  | LOR | SE209379.001 | SE209379.002 | SE209379.003 |
| 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           |



#### pH in water [AN101] Tested: 30/7/2020

|           |         |     | BH3M-a       | BH4M-a       | BH5M         |
|-----------|---------|-----|--------------|--------------|--------------|
|           |         |     | WATER        | WATER        | WATER        |
|           |         |     |              |              |              |
|           |         |     | 29/7/2020    | 29/7/2020    | 29/7/2020    |
| PARAMETER | UOM     | LOR | SE209379.001 | SE209379.002 | SE209379.003 |
| pH**      | No unit | -   | 5.1          | 6.3          | 4.6          |



#### Conductivity and TDS by Calculation - Water [AN106] Tested: 30/7/2020

|                     |       |     | BH3M-a       | BH4M-a       | BH5M         |
|---------------------|-------|-----|--------------|--------------|--------------|
|                     |       |     | WATER        | WATER        | WATER        |
|                     |       |     |              |              |              |
|                     |       |     |              |              |              |
| PARAMETER           | UOM   | LOR | SE209379.001 | SE209379.002 | SE209379.003 |
| Conductivity @ 25 C | µS/cm | 2   | 1200         | 980          | 4100         |



# SE209379 R0

#### Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 3/8/2020

|              |      |     | BH3M-a                    | BH4M-a                    | BH5M                      | GWQD 1                    | GWQR 1                    |
|--------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |      |     | WATER                     | WATER                     | WATER                     | WATER                     | WATER                     |
|              |      |     | -                         | -                         | -                         | -                         | -                         |
| PARAMETER    | UOM  | LOR | 29/7/2020<br>SE209379.001 | 29/7/2020<br>SE209379.002 | 29/7/2020<br>SE209379.003 | 29/7/2020<br>SE209379.004 | 29/7/2020<br>SE209379.005 |
| Arsenic, As  | µg/L | 1   | <1                        | <1                        | 1                         | 1                         | <1                        |
| Cadmium, Cd  | µg/L | 0.1 | <0.1                      | <0.1                      | 0.2                       | <0.1                      | <0.1                      |
| Chromium, Cr | µg/L | 1   | 1                         | 170                       | 3                         | 1                         | <1                        |
| Copper, Cu   | µg/L | 1   | 22                        | 24                        | 23                        | 26                        | <1                        |
| Lead, Pb     | µg/L | 1   | <1                        | <1                        | 11                        | <1                        | <1                        |
| Nickel, Ni   | µg/L | 1   | 26                        | 3                         | 27                        | 25                        | <1                        |
| Zinc, Zn     | µg/L | 5   | 74                        | 21                        | 180                       | 71                        | <5                        |



# SE209379 R0

#### Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 31/7/2020

|           |      |        | BH3M-a       | BH4M-a       | BH5M         | GWQD 1       | GWQR 1       |
|-----------|------|--------|--------------|--------------|--------------|--------------|--------------|
|           |      |        | WATER        | WATER        | WATER        | WATER        | WATER        |
|           |      |        |              |              |              |              | -            |
|           |      |        |              |              |              |              | 29/7/2020    |
| PARAMETER | UOM  | LOR    | SE209379.001 | SE209379.002 | SE209379.003 | SE209379.004 | SE209379.005 |
| Mercury   | mg/L | 0.0001 | <0.0001      | <0.0001      | <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<br>APHA3030B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AN101              | pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass<br>plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with<br>water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.                                                                                                                                                                                                                                                                       |
| AN106              | Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as $\mu$ mhos/cm or $\mu$ S/cm @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.                     |
| AN106              | Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present, measured by the conductivity, are present as NaCl.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution<br>to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption<br>spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration<br>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).                                                                                                                                                                                                                                                                                                                                                                       |
| 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. \*\*

Indicative data, theoretical holding time exceeded

Not analysed. NVL Not validated. IS I NR

Insufficient sample for analysis. Sample listed, but not received. UOM LOR î↓

Unit of Measure. Limit of Reporting. Raised/lowered Limit of Reporting.

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.sqs.com.au/en-gb/environment-health-and-safety

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# **ANALYTICAL REPORT**





| CLIENT DETAILS | 3                                                  | LABORATORY DE | TAILS                                        |
|----------------|----------------------------------------------------|---------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager       | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory    | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address       | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone     | +61 2 8594 0400                              |
| acsimile       | (Not specified)                                    | Facsimile     | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email         | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 mandala pole, castle hill             | SGS Reference | SE210081 R1                                  |
| Order Number   | E24724.E02                                         | Date Received | 18/8/2020                                    |
| Samples        | 1                                                  | Date Reported | 20/8/2020                                    |

COMMENTS

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

This report cancels and supersedes the report No.SE210081 R0 dated 19th August 2020 issued by SGS Environment, Health and Safety due to amended sample id.

SIGNATORIES

Dong LIANG Metals/Inorganics Team Leader

SGS Australia Pty Ltd ABN 44 000 964 278

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#### Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 19/8/2020

|              |      |     | BH4M-a                         |
|--------------|------|-----|--------------------------------|
|              |      |     | WATER                          |
| PARAMETER    | UOM  | LOR | -<br>18/8/2020<br>SE210081.001 |
|              |      |     |                                |
| Arsenic, As  | μg/L | 1   | 2                              |
| Cadmium, Cd  | µg/L | 0.1 | 0.2                            |
| Chromium, Cr | µg/L | 1   | 1                              |
| Copper, Cu   | µg/L | 1   | 22                             |
| Lead, Pb     | µg/L | 1   | 30                             |
| Nickel, Ni   | μg/L | 1   | 38                             |
| Zinc, Zn     | μg/L | 5   | 240                            |



#### Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 19/8/2020

|           |      |        | BH4M-a       |
|-----------|------|--------|--------------|
|           |      |        | WATER        |
|           |      |        | -            |
|           |      |        | 18/8/2020    |
| PARAMETER | UOM  | LOR    | SE210081.001 |
| Mercury   | mg/L | 0.0001 | <0.0001      |



| <br>METHOD         | METHODOLOGY SUMMARY                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN020              | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to<br>APHA3030B.                                                                                                                                                                                                                                                       |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution<br>to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption<br>spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration<br>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).                                                                                                                                                                                                                                                           |

#### FOOTNOTES

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

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.sqs.com.au/en-gb/environment-health-and-safety

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# **CERTIFICATE OF ANALYSIS 248038**

| Client Details |                                                  |
|----------------|--------------------------------------------------|
| Client         | El Australia                                     |
| Attention      | Lab Email                                        |
| Address        | Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009 |

| Sample Details                       |                         |
|--------------------------------------|-------------------------|
| Your Reference                       | E24729.E02, Castle Hill |
| Number of Samples                    | 1 Water                 |
| Date samples received                | 30/07/2020              |
| Date completed instructions received | 30/07/2020              |

# **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

| Report Details                    |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Date results requested by         | 06/08/2020                                                           |
| Date of Issue                     | 04/08/2020                                                           |
| NATA Accreditation Number 290     | 1. This document shall not be reproduced except in full.             |
| Accredited for compliance with IS | SO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * |

Results Approved By Dragana Tomas, Senior Chemist Loren Bardwell, Senior Chemist Authorised By

Nancy Zhang, Laboratory Manager



| vTRH(C6-C10)/BTEXN in Water                         |       |            |
|-----------------------------------------------------|-------|------------|
| Our Reference                                       |       | 248038-1   |
| Your Reference                                      | UNITS | GWQT1      |
| Date Sampled                                        |       | 29/07/2020 |
| Type of sample                                      |       | Water      |
| Date extracted                                      | -     | 31/07/2020 |
| Date analysed                                       | -     | 31/07/2020 |
| TRH C <sub>6</sub> - C <sub>9</sub>                 | µg/L  | 15         |
| TRH C <sub>6</sub> - C <sub>10</sub>                | µg/L  | 15         |
| TRH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | µg/L  | 15         |
| Benzene                                             | µg/L  | <1         |
| Toluene                                             | µg/L  | <1         |
| Ethylbenzene                                        | µg/L  | <1         |
| m+p-xylene                                          | µg/L  | <2         |
| o-xylene                                            | µg/L  | <1         |
| Naphthalene                                         | µg/L  | <1         |
| Surrogate Dibromofluoromethane                      | %     | 112        |
| Surrogate toluene-d8                                | %     | 93         |
| Surrogate 4-BFB                                     | %     | 87         |

| svTRH (C10-C40) in Water               |       |            |
|----------------------------------------|-------|------------|
| Our Reference                          |       | 248038-1   |
| Your Reference                         | UNITS | GWQT1      |
| Date Sampled                           |       | 29/07/2020 |
| Type of sample                         |       | Water      |
| Date extracted                         | -     | 31/07/2020 |
| Date analysed                          | -     | 01/08/2020 |
| TRH C <sub>10</sub> - C <sub>14</sub>  | µg/L  | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>  | µg/L  | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>  | µg/L  | <100       |
| TRH >C <sub>10</sub> - C <sub>16</sub> | µg/L  | <50        |
| TRH >C10 - C16 less Naphthalene (F2)   | μg/L  | <50        |
| TRH >C <sub>16</sub> - C <sub>34</sub> | µg/L  | <100       |
| TRH >C <sub>34</sub> - C <sub>40</sub> | µg/L  | <100       |
| Surrogate o-Terphenyl                  | %     | 98         |

| HM in water - dissolved |       |            |
|-------------------------|-------|------------|
| Our Reference           |       | 248038-1   |
| Your Reference          | UNITS | GWQT1      |
| Date Sampled            |       | 29/07/2020 |
| Type of sample          |       | Water      |
| Date prepared           | -     | 31/07/2020 |
| Date analysed           | -     | 31/07/2020 |
| Arsenic-Dissolved       | μg/L  | <1         |
| Cadmium-Dissolved       | μg/L  | 0.2        |
| Chromium-Dissolved      | µg/L  | 1          |
| Copper-Dissolved        | μg/L  | 7          |
| Lead-Dissolved          | μg/L  | <1         |
| Mercury-Dissolved       | µg/L  | <0.05      |
| Nickel-Dissolved        | μg/L  | 24         |
| Zinc-Dissolved          | µg/L  | 100        |

| Method ID  | Methodology Summary                                                                                                                                                                                                                                                                                     |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metals-021 | Determination of Mercury by Cold Vapour AAS.                                                                                                                                                                                                                                                            |
| Metals-022 | Determination of various metals by ICP-MS.                                                                                                                                                                                                                                                              |
| Org-020    | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.<br>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. |
| Org-023    | Water samples are analysed directly by purge and trap GC-MS.                                                                                                                                                                                                                                            |
| Org-023    | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.                                   |

| QUALITY CONT                         | ROL: vTRH(( | C6-C10)/E | BTEXN in Water |            |   | Du         | plicate    |     | Spike Re   | covery % |
|--------------------------------------|-------------|-----------|----------------|------------|---|------------|------------|-----|------------|----------|
| Test Description                     | Units       | PQL       | Method         | Blank      | # | Base       | Dup.       | RPD | LCS-W3     | [NT]     |
| Date extracted                       | -           |           |                | 31/07/2020 | 1 | 31/07/2020 | 31/07/2020 |     | 31/07/2020 |          |
| Date analysed                        | -           |           |                | 31/07/2020 | 1 | 31/07/2020 | 31/07/2020 |     | 31/07/2020 |          |
| TRH C <sub>6</sub> - C <sub>9</sub>  | μg/L        | 10        | Org-023        | <10        | 1 | 15         | 12         | 22  | 108        |          |
| TRH C <sub>6</sub> - C <sub>10</sub> | μg/L        | 10        | Org-023        | <10        | 1 | 15         | 12         | 22  | 108        |          |
| Benzene                              | μg/L        | 1         | Org-023        | <1         | 1 | <1         | <1         | 0   | 106        |          |
| Toluene                              | μg/L        | 1         | Org-023        | <1         | 1 | <1         | <1         | 0   | 97         |          |
| Ethylbenzene                         | μg/L        | 1         | Org-023        | <1         | 1 | <1         | <1         | 0   | 106        |          |
| m+p-xylene                           | μg/L        | 2         | Org-023        | <2         | 1 | <2         | <2         | 0   | 115        |          |
| o-xylene                             | μg/L        | 1         | Org-023        | <1         | 1 | <1         | <1         | 0   | 116        |          |
| Naphthalene                          | μg/L        | 1         | Org-023        | <1         | 1 | <1         | <1         | 0   | [NT]       |          |
| Surrogate Dibromofluoromethane       | %           |           | Org-023        | 113        | 1 | 112        | 114        | 2   | 97         |          |
| Surrogate toluene-d8                 | %           |           | Org-023        | 93         | 1 | 93         | 93         | 0   | 92         |          |
| Surrogate 4-BFB                      | %           |           | Org-023        | 86         | 1 | 87         | 87         | 0   | 111        |          |

| QUALITY CONTROL: svTRH (C10-C40) in Water |       |     |         |            |   | Duplicate  |            |     | Spike Recovery % |      |
|-------------------------------------------|-------|-----|---------|------------|---|------------|------------|-----|------------------|------|
| Test Description                          | Units | PQL | Method  | Blank      | # | Base       | Dup.       | RPD | LCS-W1           | [NT] |
| Date extracted                            | -     |     |         | 31/07/2020 | 1 | 31/07/2020 | 31/07/2020 |     | 31/07/2020       |      |
| Date analysed                             | -     |     |         | 31/07/2020 | 1 | 01/08/2020 | 01/08/2020 |     | 31/07/2020       |      |
| TRH C <sub>10</sub> - C <sub>14</sub>     | µg/L  | 50  | Org-020 | <50        | 1 | <50        | <50        | 0   | 80               |      |
| TRH C <sub>15</sub> - C <sub>28</sub>     | µg/L  | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 70               |      |
| TRH C <sub>29</sub> - C <sub>36</sub>     | µg/L  | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 77               |      |
| TRH >C <sub>10</sub> - C <sub>16</sub>    | µg/L  | 50  | Org-020 | <50        | 1 | <50        | 50         | 0   | 80               |      |
| TRH >C <sub>16</sub> - C <sub>34</sub>    | µg/L  | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 70               |      |
| TRH >C <sub>34</sub> - C <sub>40</sub>    | µg/L  | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 77               |      |
| Surrogate o-Terphenyl                     | %     |     | Org-020 | 90         | 1 | 98         | 103        | 5   | 85               |      |

| QUALITY CONTROL: HM in water - dissolved |       |      |            |            | Duplicate |      |      |      | Spike Recovery % |      |
|------------------------------------------|-------|------|------------|------------|-----------|------|------|------|------------------|------|
| Test Description                         | Units | PQL  | Method     | Blank      | #         | Base | Dup. | RPD  | LCS-W3           | [NT] |
| Date prepared                            | -     |      |            | 31/07/2020 | [NT]      |      | [NT] | [NT] | 31/07/2020       |      |
| Date analysed                            | -     |      |            | 31/07/2020 | [NT]      |      | [NT] | [NT] | 31/07/2020       |      |
| Arsenic-Dissolved                        | µg/L  | 1    | Metals-022 | <1         | [NT]      |      | [NT] | [NT] | 92               |      |
| Cadmium-Dissolved                        | µg/L  | 0.1  | Metals-022 | <0.1       | [NT]      |      | [NT] | [NT] | 98               |      |
| Chromium-Dissolved                       | µg/L  | 1    | Metals-022 | <1         | [NT]      |      | [NT] | [NT] | 101              |      |
| Copper-Dissolved                         | µg/L  | 1    | Metals-022 | <1         | [NT]      |      | [NT] | [NT] | 102              |      |
| Lead-Dissolved                           | µg/L  | 1    | Metals-022 | <1         | [NT]      |      | [NT] | [NT] | 103              |      |
| Mercury-Dissolved                        | µg/L  | 0.05 | Metals-021 | <0.05      | [NT]      |      | [NT] | [NT] | 105              |      |
| Nickel-Dissolved                         | µg/L  | 1    | Metals-022 | <1         | [NT]      |      | [NT] | [NT] | 93               |      |
| Zinc-Dissolved                           | µg/L  | 1    | Metals-022 | <1         | [NT]      |      | [NT] | [NT] | 97               |      |

| Result Definiti | ons                                       |
|-----------------|-------------------------------------------|
| NT              | Not tested                                |
| NA              | Test not required                         |
| INS             | Insufficient sample for this test         |
| PQL             | Practical Quantitation Limit              |
| <               | Less than                                 |
| >               | Greater than                              |
| RPD             | Relative Percent Difference               |
| LCS             | Laboratory Control Sample                 |
| NS              | Not specified                             |
| NEPM            | National Environmental Protection Measure |
| NR              | Not Reported                              |

| Quality Control Definitions        |                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| Blank                              | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.           |  |  |  |  |  |  |  |
| Duplicate                          | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.                                                 |  |  |  |  |  |  |  |
| Matrix Spike                       | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |  |  |  |  |  |  |  |
| LCS (Laboratory<br>Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.                                |  |  |  |  |  |  |  |
| Surrogate Spike                    | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.                          |  |  |  |  |  |  |  |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

# Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Appendix J - QA/QC Assessment

# J.1 Introduction

For the purpose of assessing the quality of data presented in this report, El collected field QC samples for analysis. The primary laboratory, SGS Australia Pty Ltd (SGS), and secondary laboratory, Envirolab Services Pty Ltd (Envirolab), also prepared and analysed internal QC samples. Details of the field and laboratory QC samples, with the allowable data acceptance ranges are presented in **Table J-1**.

 Table J.1
 Sampling Data Quality Indicators

| QA/QC Measures                                                                                  | Data Quality Indicators                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Precision</b> – A quantitative<br>measure of the variability (or<br>reproducibility) of data | Data precision would be assessed by reviewing the performance of blind<br>field duplicate sample sets, through calculation of relative percentage<br>differences (RPD). Data precision would be deemed acceptable if RPDs are<br>found to be less than 30%. RPDs that exceed this range may be considered<br>acceptable where:  |  |  |  |  |  |
|                                                                                                 | <ul> <li>Results are less than 10 times the limits of reporting (LOR);</li> </ul>                                                                                                                                                                                                                                               |  |  |  |  |  |
|                                                                                                 | <ul> <li>Results are less than 20 times the LOR and the RPD is less than 50%; or</li> </ul>                                                                                                                                                                                                                                     |  |  |  |  |  |
|                                                                                                 | <ul> <li>Heterogeneous materials or volatile compounds are encountered.</li> </ul>                                                                                                                                                                                                                                              |  |  |  |  |  |
| Accuracy – A quantitative                                                                       | Data accuracy would be assessed through the analysis of:                                                                                                                                                                                                                                                                        |  |  |  |  |  |
| measure of the closeness of reported data to the "true"                                         | <ul> <li>Method blanks, which are analysed for the analytes targeted in the<br/>primary samples;</li> </ul>                                                                                                                                                                                                                     |  |  |  |  |  |
| value                                                                                           | <ul> <li>Matrix spike and matrix spike duplicate sample sets;</li> </ul>                                                                                                                                                                                                                                                        |  |  |  |  |  |
|                                                                                                 | <ul> <li>Laboratory control samples; and</li> </ul>                                                                                                                                                                                                                                                                             |  |  |  |  |  |
|                                                                                                 | <ul> <li>Calibration of instruments against known standards.</li> </ul>                                                                                                                                                                                                                                                         |  |  |  |  |  |
| <b>Representativeness</b> – The confidence (expressed qualitatively) that data are              | To ensure the data produced by the laboratory is representative of<br>conditions encountered in the field, the laboratory would carry out the<br>following:                                                                                                                                                                     |  |  |  |  |  |
| representative of each medium present onsite                                                    | <ul> <li>Blank samples will be run in parallel with field samples to confirm there<br/>are no unacceptable instances of laboratory artefacts;</li> </ul>                                                                                                                                                                        |  |  |  |  |  |
|                                                                                                 | <ul> <li>Review of relative percentage differences (RPD) values for field and<br/>laboratory duplicates to provide an indication that the samples are<br/>generally homogeneous, with no unacceptable instances of significant<br/>sample matrix heterogeneities; and</li> </ul>                                                |  |  |  |  |  |
|                                                                                                 | <ul> <li>The appropriateness of collection methodologies, handling, storage and<br/>preservation techniques will be assessed to ensure/confirm there was<br/>minimal opportunity for sample interference or degradation (i.e. volatile<br/>loss during transport due to incorrect preservation / transport methods).</li> </ul> |  |  |  |  |  |
| <b>Completeness</b> – A measure of the amount of useable data                                   | Analytical data sets acquired during the assessment will be evaluated as complete, upon confirmation that:                                                                                                                                                                                                                      |  |  |  |  |  |
| from a data collection activity                                                                 | <ul> <li>Standard operating procedures (SOPs) for sampling protocols were<br/>adhered to; and</li> </ul>                                                                                                                                                                                                                        |  |  |  |  |  |
|                                                                                                 | <ul> <li>Copies of all COC documentation are presented, reviewed and found to<br/>be properly completed.</li> </ul>                                                                                                                                                                                                             |  |  |  |  |  |
|                                                                                                 | It can therefore be considered whether the proportion of "useable data" generated in the data collection activities is sufficient for the purposes of the land use assessment.                                                                                                                                                  |  |  |  |  |  |



| QA/QC Measures                                                                                                                                            | Data Quality Indicators                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Comparability</b> – The<br>confidence (expressed<br>qualitatively) that data may be<br>considered to be equivalent for<br>each sampling and analytical | Given that a reported data set can comprise several data sets from<br>separate sampling episodes, issues of comparability between data sets are<br>reduced through adherence to SOPs and regulator-endorsed or published<br>guidelines and standards on each data gathering activity.<br>In addition the data will be collected by experienced samplers and NATA- |
| event                                                                                                                                                     | accredited laboratory methodologies will be employed in all laboratory testing programs.                                                                                                                                                                                                                                                                          |

#### J.1.1 Calculation of Relative Percentage Difference (RPD)

The RPD values were calculated using the following equation:

$$RPD = \frac{|C_0 - C_R|}{[(C_0 + C_R)/2]} \times 100$$

Where:

Co = Concentration obtained for the primary sample; and

 $C_R$  = Concentration obtained for the blind replicate or split duplicate sample.

# J.2 Field QA/QC Data Evaluation

The field quality assurance/quality control (QA/QC) soil samples collected during the investigations were as follows:

- Blind field duplicates (i.e. Intra-laboratory duplicates)
- Inter-laboratory duplicates
- Trip blanks
- Trip spikes
- Rinsate blank

Analytical results for tested soil and groundwater QA/QC samples, including calculated RPD values between primary and duplicate samples, are presented in **Table J-2** in **Appendix B**.

#### J.2.1 Soil Investigation

#### J.2.1.1 Blind Field Duplicates

Two blind field duplicate (BFD) soil samples were collected as follows:

- Sample QD1 was collected from the primary sample TP8\_0.1-0.2 on 8 July 2020; and
- Sample QD2 was collected from the primary sample TP17\_0.1-0.2 on 8 July 2020;

The preparation of the BFD sample involved the collection of a bulk quantity of soil from the same sampling point without mixing, before dividing the material into identical sampling vessels. The duplicate sample was then presented blind to the primary laboratory (SGS) to avoid any potential analytical bias. BFD soil samples were analysed for TRHs, BTEX, and selected metals. Calculated RPD values were found to be within the Data Acceptance Criteria.



#### J.2.1.2 Inter-Laboratory Duplicate

Two inter-laboratory duplicate (ILD) soil samples were collected as follows:

- Sample QT1 was collected from the primary sample TP8\_0.1-0.2 on 8 July 2020; and
- Sample QT2 was collected from the primary sample TP17\_0.1-0.2 on 8 July 2020.

The preparation of the ILD sample was identical to the BFD sample, as described above, and was analysed for TRHs, BTEX and selected metals by the secondary laboratory (Envirolab).

Calculated RPD values were found to be within the Data Acceptance Criteria, with the exception of chromium, copper, lead, nickel and zinc; however, this exceedance of the DQIs has no impact on the conclusions and recommendations provided.

#### J.2.2 Groundwater Investigation

#### J.2.2.1 Blind Field Duplicates

One blind field duplicate (BFD) groundwater sample was collected as follows:

Sample GWQD1 was collected from the primary sample BH3M-a on 29 July 2020;

The duplicate sample was presented blind to the primary laboratory (SGS) to avoid any potential analytical bias. BFD groundwater samples were analysed for TRHs, BTEX, and selected metals. Calculated RPD values were found to be within the Data Acceptance Criteria.

#### J.2.2.2 Inter-Laboratory Duplicate

Sample GWQT1 was collected as an inter-laboratory duplicate (ILD) of the primary sample BH3M-a on 29 July 2020. It was analysed for TRHs, BTEX and selected metals by the secondary laboratory (Envirolab). Calculated RPD values were found to be within the Data Acceptance Criteria, with the exception of copper; however, this exceedance of the DQIs has no impact on the conclusions and recommendations provided.

#### J.2.2.3 Trip Blank

Two trip blank samples were prepared and analysed by the primary laboratory for BTEX. Analytical results for the samples were all below the corresponding laboratory LOR, indicating that ideal sample transport and handling conditions were achieved (i.e. there was no cross-contamination during sample transport and handling).

#### J.2.2.4 Trip Spike

Two trip spike samples were prepared and analysed by the primary laboratory for BTEX. Analyte recoveries for these samples were 87-99%, which complied with the DQI. It was therefore concluded that satisfactory sample transport and handling conditions were achieved (i.e. there was negligible loss of volatiles, and by default semi-volatiles, during sample transport and handling).

#### J.2.2.5 Rinsate Blank

Two rinsate blank samples were submitted to the primary laboratory for TRHs, BTEX, and selected metals analyses. Analytical results were reported below the laboratory LOR.

#### J.2.3 Assessment of Field QA/QC Data

All samples were classified in the field with respect to soil/fill characteristics and any observable signs of contamination based on visual and odour assessment, in regards to soil and groundwater.



All samples, including field QC samples, were transported to the primary and secondary laboratories under strict Chain-of-Custody conditions and appropriate copies of relevant documentation were included in the respective reports.

The overall completeness of documentation produced under the field program of the subject assessment was considered to be adequate for the purposes of drawing valid conclusions regarding the environmental condition of the site.

Based on the results of the field QA/QC data EI considered the field QA/QC programme carried out during the investigation to be appropriate and the results to be acceptable.

# J.3 Laboratory QA/QC

#### J.3.1 Laboratory Accreditation

To undertake all analytical testing, EI commissioned SGS as the primary laboratory and Envirolab as the secondary laboratory. SGS and Envirolab, both established analytical laboratories which operate in accordance with the guidelines set out in ISO/IEC Guide 25 "General requirements for the competence of calibration and testing laboratories", conducted all respective analyses using National Association Testing Authorities (NATA)-registered procedures.

In relation to contingencies, should the pre-determined DQOs not be achieved, in accordance with each laboratory's QC policy (**Appendix K**), respective tests would be accordingly repeated. Should the results again fall outside the DQOs, then sample heterogeneity may be assumed and written comment will be provided to this effect on the final laboratory certificate. The laboratory QA/QC reports are included in **Appendix K**.

#### J.3.2 Sample Holding Times

Sample holding times were generally within the laboratory DQOs, which were consistent with standard environmental protocols as tabulated in **Appendix K**, **Tables QC1** and **QC2**.

#### J.3.3 Test Methods and Practical Quantitation Limits (PQLs)

Practical Quantitation Limits for all tested parameters during the assessment of soils and groundwater are presented in **Appendix K**, **Tables QC3** and **QC4**.

#### J.3.4 Method Blanks

Concentrations of all parameters in method blanks during the assessment were below the laboratory PQLs and were therefore within the DAC.

#### J.3.5 Laboratory Duplicate Samples

The Laboratory Control Samples (LCS) for the analysis batches showed calculated RPDs that were within acceptable ranges and conformed to the DAC, with the exception of copper, nickel and zinc in one soil sample and chromium in two soil samples due to sample heterogeneity.

#### J.3.6 Laboratory Control Samples

The Laboratory Control Samples for the analysis batches were within acceptable ranges and conformed to the DAC.

#### J.3.7 Matrix Spikes

Matrix spikes for the respective sample batches were within acceptable ranges and conformed to the DAC, with the exception of zinc and lead in two soil samples, chromium and copper in one soil sample, and calcium, magnesium and sodium in one soil sample due to matrix interference.



#### J.3.8 Surrogate

Recovery results for surrogate samples conformed to the DAC, with the exception of VOCs in two soil samples. However, at least 2 of 3 surrogates are within acceptance criteria.

#### J.3.9 Concluding Remark

Based on the laboratory QA/QC results EI considers that the data confirms that although a small number of discrepancies were identified, the analytical results for the various phases of laboratory testing were valid and useable for interpretation purposes.



# Appendix K - Laboratory QA/AC Policies and DQOs





# STATEMENT OF QA/QC PERFORMANCE

| CLIENT DETAILS |                                                    | LABORATORY DETAI | ILS                                          |
|----------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager          | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference    | SE208655 R0                                  |
| Order Number   | E24724.E02                                         | Date Received    | 13 Jul 2020                                  |
| Samples        | 32                                                 | Date Reported    | 20 Jul 2020                                  |

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 | VOCs in Water                                                       | 1 item  |
|-----------------|---------------------------------------------------------------------|---------|
|                 | Volatile Petroleum Hydrocarbons in Water                            | 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 | 1 item  |
|                 | VOC's in Soil                                                       | 1 item  |
|                 | VOC's in Soil                                                       | 1 item  |
|                 |                                                                     |         |

| 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            | 31 Soil, 1 Water |
| Date documentation received            | 13/7/2020 | Type of documentation received     | COC              |
| Samples received in good order         | Yes       | Samples received without headspace | Yes              |
| Sample temperature upon receipt        | 5.7°C     | Sufficient sample for analysis     | Yes              |
| Turnaround time requested              | Standard  |                                    |                  |

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Member of the SGS Group

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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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

#### Fibre Identification in soil

| Fibre Identification in soil |              |          |             |             |                |             | Method: I            | ME-(AU)-[ENV]AN6 |
|------------------------------|--------------|----------|-------------|-------------|----------------|-------------|----------------------|------------------|
| Sample Name                  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed         |
| TP7_0.1-0.2                  | SE208655.001 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP7_1.3-1.4                  | SE208655.002 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP8_0.1-0.2                  | SE208655.003 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP8_0.9-1.0                  | SE208655.004 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP9_0.1-0.2                  | SE208655.005 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP9_1.2-1.3                  | SE208655.006 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP10_0.1-0.2                 | SE208655.007 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP11_0.1-0.2                 | SE208655.008 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP11_0.8-0.9                 | SE208655.009 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP12_0.1-0.2                 | SE208655.010 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP12_0.8-0.9                 | SE208655.011 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP12_1.7-1.8                 | SE208655.012 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP13_0.1-0.2                 | SE208655.013 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP13_1.2-1.3                 | SE208655.014 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP13_2.0-2.1                 | SE208655.015 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP14_0.1-0.2                 | SE208655.016 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP14_1.5-1.6                 | SE208655.017 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP15_0.1-0.2                 | SE208655.018 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP15_1.7-1.8                 | SE208655.019 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP16_0.1-0.2                 | SE208655.020 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP17_0.1-0.2                 | SE208655.021 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP18_0.1-0.2                 | SE208655.022 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP18_1.8-1.9                 | SE208655.023 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP19_0.1-0.2                 | SE208655.024 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| TP19_1.4-1.5                 | SE208655.025 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| BH1_0.1-0.2                  | SE208655.031 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| 3H1_0.7-0.8                  | SE208655.032 | LB204569 | 08 Jul 2020 | 13 Jul 2020 | 08 Jul 2021    | 17 Jul 2020 | 08 Jul 2021          | 20 Jul 2020      |
| lercury (dissolved) in Wat   | er           |          |             |             |                |             | Method: ME-(AU)-[ENV | JAN311(Perth)/AN |
| Sample Name                  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed         |

| Sample Name | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| QR1         | SE208655.028 | LB204300 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 15 Jul 2020 |

| Mercury in Soil |              |          |             |             |                |             | Method: I    | ME-(AU)-[ENV]AN3 <sup>-</sup> |
|-----------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------------------------|
| Sample Name     | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed                      |
| TP7_0.1-0.2     | SE208655.001 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP7_1.3-1.4     | SE208655.002 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP8_0.1-0.2     | SE208655.003 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP8_0.9-1.0     | SE208655.004 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP9_0.1-0.2     | SE208655.005 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP9_1.2-1.3     | SE208655.006 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP10_0.1-0.2    | SE208655.007 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP11_0.1-0.2    | SE208655.008 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP11_0.8-0.9    | SE208655.009 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP12_0.1-0.2    | SE208655.010 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP12_0.8-0.9    | SE208655.011 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP12_1.7-1.8    | SE208655.012 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP13_0.1-0.2    | SE208655.013 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP13_1.2-1.3    | SE208655.014 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP13_2.0-2.1    | SE208655.015 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP14_0.1-0.2    | SE208655.016 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP14_1.5-1.6    | SE208655.017 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP15_0.1-0.2    | SE208655.018 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP15_1.7-1.8    | SE208655.019 | LB204384 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP16_0.1-0.2    | SE208655.020 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP17_0.1-0.2    | SE208655.021 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP18_0.1-0.2    | SE208655.022 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP18_1.8-1.9    | SE208655.023 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP19_0.1-0.2    | SE208655.024 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| TP19_1.4-1.5    | SE208655.025 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |
| QD1             | SE208655.026 | LB204386 | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020 | 05 Aug 2020  | 20 Jul 2020                   |



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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

| Mercury in Soil (continued)  |                              |                      |             |             |                |                                           | Method:                                                  | ME-(AU)-[ENV]AN31                         |
|------------------------------|------------------------------|----------------------|-------------|-------------|----------------|-------------------------------------------|----------------------------------------------------------|-------------------------------------------|
| Sample Name                  | Sample No.                   | QC Ref               | Sampled     | Received    | Extraction Due | Extracted                                 | Analysis Due                                             | Analysed                                  |
| QD2                          | SE208655.027                 | LB204386             | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020                               | 05 Aug 2020                                              | 20 Jul 2020                               |
| BH1_0.1-0.2                  | SE208655.031                 | LB204386             | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020                               | 05 Aug 2020                                              | 20 Jul 2020                               |
| BH1_0.7-0.8                  | SE208655.032                 | LB204386             | 08 Jul 2020 | 13 Jul 2020 | 05 Aug 2020    | 15 Jul 2020                               | 05 Aug 2020                                              | 20 Jul 2020                               |
| Voisture Content             |                              |                      |             |             |                |                                           | Method:                                                  | ME-(AU)-[ENV]AN00                         |
| Sample Name                  | Sample No.                   | QC Ref               | Sampled     | Received    | Extraction Due | Extracted                                 | Analysis Due                                             | Analysed                                  |
| TP7_0.1-0.2                  | SE208655.001                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP7_1.3-1.4                  | SE208655.002                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP8_0.1-0.2                  | SE208655.003                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP8_0.9-1.0                  | SE208655.004                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP9_0.1-0.2                  | SE208655.005                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP9_1.2-1.3                  | SE208655.006                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP10_0.1-0.2                 | SE208655.007                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP11_0.1-0.2                 | SE208655.008                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP11_0.8-0.9                 | SE208655.009                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP12_0.1-0.2                 | SE208655.010                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP12_0.8-0.9                 | SE208655.011                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP12_1.7-1.8                 | SE208655.012                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP13_0.1-0.2                 | SE208655.013                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP13_0.1-0.2<br>TP13_1.2-1.3 | SE208655.013                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
|                              | SE208655.014                 | LB204345             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 17 Jul 2020                               |
| TP13_2.0-2.1                 | SE208655.015<br>SE208655.016 | LB204345<br>LB204345 |             |             |                |                                           |                                                          | 17 Jul 2020                               |
| TP14_0.1-0.2                 |                              |                      | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              |                                           |
| TP14_1.5-1.6                 | SE208655.017                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP15_0.1-0.2                 | SE208655.018                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP15_1.7-1.8                 | SE208655.019                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP16_0.1-0.2                 | SE208655.020                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP17_0.1-0.2                 | SE208655.021                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP18_0.1-0.2                 | SE208655.022                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP18_1.8-1.9                 | SE208655.023                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP19_0.1-0.2                 | SE208655.024                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| TP19_1.4-1.5                 | SE208655.025                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| QD1                          | SE208655.026                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| QD2                          | SE208655.027                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| QTB1                         | SE208655.029                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| BH1_0.1-0.2                  | SE208655.031                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| BH1_0.7-0.8                  | SE208655.032                 | LB204346             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 20 Jul 2020                                              | 20 Jul 2020                               |
| OC Pesticides in Soil        |                              |                      |             |             |                |                                           | Method:                                                  | ME-(AU)-[ENV]AN42                         |
| Sample Name                  | Sample No.                   | QC Ref               | Sampled     | Received    | Extraction Due | Extracted                                 | Analysis Due                                             | Analysed                                  |
| TP7_0.1-0.2                  | SE208655.001                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP7_1.3-1.4                  | SE208655.002                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP8_0.1-0.2                  | SE208655.003                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP8_0.9-1.0                  | SE208655.004                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP9_0.1-0.2                  | SE208655.005                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP9_1.2-1.3                  | SE208655.006                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP10_0.1-0.2                 | SE208655.007                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP11_0.1-0.2                 | SE208655.008                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP11_0.8-0.9                 | SE208655.009                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP12_0.1-0.2                 | SE208655.010                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020<br>24 Aug 2020                               | 20 Jul 2020                               |
| TP12_0.8-0.9                 | SE208655.011                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020<br>24 Aug 2020                               | 20 Jul 2020                               |
| TP12_0.6-0.9<br>TP12_1.7-1.8 | SE208655.012                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020<br>24 Aug 2020                               | 20 Jul 2020                               |
| TP12_1.7-1.6<br>TP13_0.1-0.2 | SE208655.012                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020<br>24 Aug 2020                               | 20 Jul 2020                               |
|                              |                              |                      |             |             |                |                                           |                                                          |                                           |
| TP13_1.2-1.3                 | SE208655.014                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP13_2.0-2.1                 | SE208655.015                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP14_0.1-0.2                 | SE208655.016                 | LB204342             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP14_1.5-1.6                 | SE208655.017                 | LB204343             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP15 0.1-0.2                 | SE208655.018                 | LB204343             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| _                            |                              |                      | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP15_1.7-1.8                 | SE208655.019                 | LB204343             |             |             |                |                                           |                                                          |                                           |
| TP15_1.7-1.8<br>TP16_0.1-0.2 | SE208655.020                 | LB204343             | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020                               | 24 Aug 2020                                              | 20 Jul 2020                               |
| TP15_1.7-1.8                 |                              |                      |             |             |                | 15 Jul 2020<br>15 Jul 2020<br>15 Jul 2020 | 24 Aug 2020<br>24 Aug 2020<br>24 Aug 2020<br>24 Aug 2020 | 20 Jul 2020<br>20 Jul 2020<br>20 Jul 2020 |



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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

#### OC Pesticides in Soil (continued)

| Extracted         Analysis Due         Analysis           Jul 2020         15 Jul 2020         24 Aug 2020         20 Jul 20           Jul 2020         15 Jul 2020         24 Aug 2020         20 Jul 20           Jul 2020         15 Jul 2020         24 Aug 2020         20 Jul 20 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                        |
| ul 2020 15 Jul 2020 24 Aug 2020 20 Jul 20                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                        |
| lul 2020 15 Jul 2020 24 Aug 2020 20 Jul 20                                                                                                                                                                                                                                             |
| lul 2020 15 Jul 2020 24 Aug 2020 20 Jul 20.                                                                                                                                                                                                                                            |
| lul 2020 15 Jul 2020 24 Aug 2020 20 Jul 20.                                                                                                                                                                                                                                            |
| lul 2020 15 Jul 2020 24 Aug 2020 20 Jul 20.                                                                                                                                                                                                                                            |
| lul 2020 15 Jul 2020 24 Aug 2020 20 Jul 20.                                                                                                                                                                                                                                            |
| 1                                                                                                                                                                                                                                                                                      |

| OF Festicides III 301 |              |          |             |             |                |             | Wouldd.      |             |
|-----------------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| Sample Name           | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
| TP7_0.1-0.2           | SE208655.001 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP7_1.3-1.4           | SE208655.002 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP8_0.1-0.2           | SE208655.003 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP8_0.9-1.0           | SE208655.004 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP9_0.1-0.2           | SE208655.005 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP9_1.2-1.3           | SE208655.006 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP10_0.1-0.2          | SE208655.007 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP11_0.1-0.2          | SE208655.008 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP11_0.8-0.9          | SE208655.009 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP12_0.1-0.2          | SE208655.010 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP12_0.8-0.9          | SE208655.011 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP12_1.7-1.8          | SE208655.012 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP13_0.1-0.2          | SE208655.013 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP13_1.2-1.3          | SE208655.014 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP13_2.0-2.1          | SE208655.015 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP14_0.1-0.2          | SE208655.016 | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP14_1.5-1.6          | SE208655.017 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP15_0.1-0.2          | SE208655.018 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP15_1.7-1.8          | SE208655.019 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP16_0.1-0.2          | SE208655.020 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP17_0.1-0.2          | SE208655.021 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP18_0.1-0.2          | SE208655.022 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP18_1.8-1.9          | SE208655.023 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP19_0.1-0.2          | SE208655.024 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP19_1.4-1.5          | SE208655.025 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| QD1                   | SE208655.026 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| QD2                   | SE208655.027 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| BH1_0.1-0.2           | SE208655.031 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| BH1_0.7-0.8           | SE208655.032 | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
|                       |              |          |             |             |                |             |              |             |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Sample Name Sample No. QC Ref Sampled Extraction Due Extracted Analysis Due Analysed Received TP7 0.1-0.2 SE208655.001 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP7\_1.3-1.4 SE208655.002 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP8 0.1-0.2 SE208655.003 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 LB204342 24 Aug 2020 20 Jul 2020 TP8\_0.9-1.0 SE208655.004 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP9\_0.1-0.2 SE208655.005 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP9 1.2-1.3 SE208655.006 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP10\_0.1-0.2 SE208655.007 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP11 0.1-0.2 SE208655.008 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP11\_0.8-0.9 SE208655.009 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP12\_0.1-0.2 SE208655.010 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP12 0.8-0.9 SE208655.011 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP12\_1.7-1.8 SE208655.012 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP13\_0.1-0.2 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 20 Jul 2020 SE208655.013 24 Aug 2020 TP13\_1.2-1.3 SE208655.014 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP13\_2.0-2.1 SE208655.015 LB204342 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP14 0.1-0.2 08 Jul 2020 13 Jul 2020 SE208655.016 LB204342 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP14\_1.5-1.6 SE208655.017 LB204343 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 TP15\_0.1-0.2 SE208655.018 LB204343 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020 SE208655.019 LB204343 TP15 1.7-1.8 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 20 Jul 2020

Method: ME-(AU)-IENVIAN420



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

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

| PAH (Polynuclear Aromat | ic Hydrocarbons) in Soil (co | ontinued)         |             |             |                |             | Method:        | ME-(AU)-[ENV]AN42 |
|-------------------------|------------------------------|-------------------|-------------|-------------|----------------|-------------|----------------|-------------------|
| Sample Name             | Sample No.                   | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| TP16_0.1-0.2            | SE208655.020                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP17_0.1-0.2            | SE208655.021                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP18_0.1-0.2            | SE208655.022                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP18_1.8-1.9            | SE208655.023                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP19_0.1-0.2            | SE208655.024                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP19_1.4-1.5            | SE208655.025                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| QD1                     | SE208655.026                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| QD2                     | SE208655.027                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| BH1_0.1-0.2             | SE208655.031                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| BH1_0.7-0.8             | SE208655.032                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| CBs in Soil             |                              |                   |             |             |                |             | Method:        | ME-(AU)-[ENV]AN42 |
| Sample Name             | Sample No.                   | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| TP7_0.1-0.2             | SE208655.001                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP7_1.3-1.4             | SE208655.002                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP8_0.1-0.2             | SE208655.003                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP8_0.9-1.0             | SE208655.004                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP9_0.1-0.2             | SE208655.005                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP9_1.2-1.3             | SE208655.006                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| <br>TP10_0.1-0.2        | SE208655.007                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP11_0.1-0.2            | SE208655.008                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP11_0.8-0.9            | SE208655.009                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP12_0.1-0.2            | SE208655.010                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP12_0.8-0.9            | SE208655.011                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| ГР12_1.7-1.8            | SE208655.012                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| P13_0.1-0.2             | SE208655.013                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| P13_1.2-1.3             | SE208655.014                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| FP13_2.0-2.1            | SE208655.015                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| ГР14_0.1-0.2            | SE208655.016                 | LB204342          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| P14_1.5-1.6             | SE208655.017                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| ГР15_0.1-0.2            | SE208655.018                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP15_1.7-1.8            | SE208655.019                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP16_0.1-0.2            | SE208655.020                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP17_0.1-0.2            | SE208655.021                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP18_0.1-0.2            | SE208655.022                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP18_1.8-1.9            | SE208655.023                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP19_0.1-0.2            | SE208655.024                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| TP19_1.4-1.5            | SE208655.025                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| QD1                     | SE208655.026                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| QD2                     | SE208655.027                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| 3H1_0.1-0.2             | SE208655.031                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| 3H1_0.7-0.8             | SE208655.032                 | LB204343          | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020    | 20 Jul 2020       |
| otal Recoverable Elemen | nts in Soil/Waste Solids/Ma  | terials by ICPOES |             |             |                |             | Method: ME-(AL | )-[ENV]AN040/AN32 |
| Sample Name             | Sample No.                   | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| FP7_0.1-0.2             | SE208655.001                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| FP7_1.3-1.4             | SE208655.002                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| FP8_0.1-0.2             | SE208655.003                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP8_0.9-1.0             | SE208655.004                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| ГР9_0.1-0.2             | SE208655.005                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| FP9_1.2-1.3             | SE208655.006                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| FP10_0.1-0.2            | SE208655.007                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP11_0.1-0.2            | SE208655.008                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP11_0.8-0.9            | SE208655.009                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP12_0.1-0.2            | SE208655.010                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP12_0.8-0.9            | SE208655.011                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP12_1.7-1.8            | SE208655.012                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP13_0.1-0.2            | SE208655.013                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP13_1.2-1.3            | SE208655.014                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
| TP13_2.0-2.1            | SE208655.015                 | LB204380          | 08 Jul 2020 | 13 Jul 2020 | 04 Jan 2021    | 15 Jul 2020 | 04 Jan 2021    | 17 Jul 2020       |
|                         | 05000055.040                 | 1 000 4000        | 00 101 0000 | 40.1.1.0000 | 04 1 0004      | 15 1 1 0000 | 04 1 0004      | 47 101 0000       |

SE208655.016

LB204380

08 Jul 2020

13 Jul 2020

04 Jan 2021

15 Jul 2020

04 Jan 2021

17 Jul 2020



Method: ME (ALD JENI/JAN/02

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) Method: ME-(AU)-[ENV]AN040/AN320 Sample Name Sampled Sample No. QC Ref Extraction Due Analysis Due Analysed Received Extracted TP14 1.5-1.6 SE208655.017 I B204380 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 20 Jul 2020 TP15\_0.1-0.2 SE208655.018 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 LB204380 TP15 1.7-1.8 SE208655.019 LB204380 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 TP16\_0.1-0.2 SE208655.020 LB204381 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 TP17 0.1-0.2 SE208655.021 LB204381 08 Jul 2020 13 Jul 2020 15 Jul 2020 04 Jan 2021 04 Jan 2021 20 Jul 2020 TP18\_0.1-0.2 SE208655.022 LB204381 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 SE208655.023 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 TP18 1.8-1.9 LB204381 20 Jul 2020 TP19 0.1-0.2 SE208655.024 LB204381 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 TP19\_1.4-1.5 SE208655.025 LB204381 08 Jul 2020 13 Jul 2020 15 Jul 2020 04 Jan 2021 04 Jan 2021 20 Jul 2020 QD1 04 Jan 2021 SE208655.026 LB204381 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 20 Jul 2020 QD2 SE208655.027 LB204381 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 13 Jul 2020 BH1\_0.1-0.2 SE208655.031 LB204381 08 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 BH1 0.7-0.8 SE208655.032 LB204381 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 20 Jul 2020 Trace Metals (Dissolved) in Water by ICPMS Method: ME-(AU)-[ENV]AN318 Analysis Due Analysed Sample Name Sample No. QC Ref Sampled Extraction Due Extracted Received QR1 SE208655.028 LB204402 08 Jul 2020 13 Jul 2020 04 Jan 2021 15 Jul 2020 04 Jan 2021 16 Jul 2020

#### TRH (Total Recoverable Hydrocarbons) in Soil

| TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(A |                       |          |             |             |                |             |              | ME-(AU)-[ENV]AN403 |
|------------------------------------------------------------|-----------------------|----------|-------------|-------------|----------------|-------------|--------------|--------------------|
| Sample Name                                                | Sample No.            | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed           |
| TP7_0.1-0.2                                                | SE208655.001          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP7_1.3-1.4                                                | SE208655.002          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP8_0.1-0.2                                                | SE208655.003          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP8_0.9-1.0                                                | SE208655.004          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP9_0.1-0.2                                                | SE208655.005          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP9_1.2-1.3                                                | SE208655.006          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP10_0.1-0.2                                               | SE208655.007          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
| TP11_0.1-0.2                                               | SE208655.008          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP11_0.8-0.9                                               | SE208655.009          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP12_0.1-0.2                                               | SE208655.010          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP12_0.8-0.9                                               | SE208655.011          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP12_1.7-1.8                                               | SE208655.012          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP13_0.1-0.2                                               | SE208655.013          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP13_1.2-1.3                                               | SE208655.014          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP13_2.0-2.1                                               | SE208655.015          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP14_0.1-0.2                                               | SE208655.016          | LB204342 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP14_1.5-1.6                                               | SE208655.017          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP15_0.1-0.2                                               | SE208655.018          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP15_1.7-1.8                                               | SE208655.019          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP16_0.1-0.2                                               | SE208655.020          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP17_0.1-0.2                                               | SE208655.021          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP18_0.1-0.2                                               | SE208655.022          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP18_1.8-1.9                                               | SE208655.023          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP19_0.1-0.2                                               | SE208655.024          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TP19_1.4-1.5                                               | SE208655.025          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| QD1                                                        | SE208655.026          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| QD2                                                        | SE208655.027          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| BH1_0.1-0.2                                                | SE208655.031          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| BH1_0.7-0.8                                                | SE208655.032          | LB204343 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020        |
| TRH (Total Recoverable Hy                                  | ydrocarbons) in Water |          |             |             |                |             | Method: I    | ME-(AU)-[ENV]AN403 |
| Sample Name                                                | Sample No.            | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed           |
| QR1                                                        | SE208655.028          | LB204298 | 08 Jul 2020 | 13 Jul 2020 | 15 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020        |
|                                                            |                       |          |             |             |                |             |              |                    |

#### VOC's in Soil Method: ME-(AU)-[ENV]AN433 Analysis Due Analysed Sample Name Sample No. QC Ref Sampled Received Extraction Due Extracted TP7 0.1-0.2 SE208655.001 LB204339 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 17 Jul 2020 TP7\_1.3-1.4 SE208655.002 LB204339 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 17 Jul 2020 TP8\_0.1-0.2 SE208655.003 LB204339 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 17 Jul 2020 TP8 0.9-1.0 SE208655.004 LB204339 08 Jul 2020 13 Jul 2020 22 Jul 2020 15 Jul 2020 24 Aug 2020 17 Jul 2020



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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

#### VOC's in Soil (continued)

| VOC's in Soil (continued) |              |          |             |             |                |             | Method: I    | /IE-(AU)-[ENV]AN4 |
|---------------------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------------|
| Sample Name               | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed          |
| TP9_0.1-0.2               | SE208655.005 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP9_1.2-1.3               | SE208655.006 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP10_0.1-0.2              | SE208655.007 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP11_0.1-0.2              | SE208655.008 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP11_0.8-0.9              | SE208655.009 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP12_0.1-0.2              | SE208655.010 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP12_0.8-0.9              | SE208655.011 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP12_1.7-1.8              | SE208655.012 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP13_0.1-0.2              | SE208655.013 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP13_1.2-1.3              | SE208655.014 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP13_2.0-2.1              | SE208655.015 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP14_0.1-0.2              | SE208655.016 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020       |
| TP14_1.5-1.6              | SE208655.017 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP15_0.1-0.2              | SE208655.018 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP15_1.7-1.8              | SE208655.019 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP16_0.1-0.2              | SE208655.020 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP17_0.1-0.2              | SE208655.021 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP18_0.1-0.2              | SE208655.022 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP18_1.8-1.9              | SE208655.023 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP19_0.1-0.2              | SE208655.024 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| TP19_1.4-1.5              | SE208655.025 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| QD1                       | SE208655.026 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| QD2                       | SE208655.027 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| QTB1                      | SE208655.029 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| QTS1                      | SE208655.030 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| BH1_0.1-0.2               | SE208655.031 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| BH1_0.7-0.8               | SE208655.032 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020       |
| OCs in Water              |              |          |             |             |                |             | Method: I    | /IE-(AU)-[ENV]AN  |
| Sample Name               | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed          |

| QR1 | SE208655.028 | LB204439 | 08 Jul 2020 | 13 Jul 2020 | 15 Jul 2020 | 16 Jul 2020† | 25 Aug 2020 | 17 Jul 2020 |
|-----|--------------|----------|-------------|-------------|-------------|--------------|-------------|-------------|
|     |              |          |             |             |             |              |             |             |

| Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN4 |              |          |             |             |                |             |              |             |
|------------------------------------------------------------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| Sample Name                                                      | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
| TP7_0.1-0.2                                                      | SE208655.001 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP7_1.3-1.4                                                      | SE208655.002 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP8_0.1-0.2                                                      | SE208655.003 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP8_0.9-1.0                                                      | SE208655.004 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP9_0.1-0.2                                                      | SE208655.005 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP9_1.2-1.3                                                      | SE208655.006 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP10_0.1-0.2                                                     | SE208655.007 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP11_0.1-0.2                                                     | SE208655.008 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP11_0.8-0.9                                                     | SE208655.009 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP12_0.1-0.2                                                     | SE208655.010 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP12_0.8-0.9                                                     | SE208655.011 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP12_1.7-1.8                                                     | SE208655.012 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP13_0.1-0.2                                                     | SE208655.013 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP13_1.2-1.3                                                     | SE208655.014 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP13_2.0-2.1                                                     | SE208655.015 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP14_0.1-0.2                                                     | SE208655.016 | LB204339 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 17 Jul 2020 |
| TP14_1.5-1.6                                                     | SE208655.017 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP15_0.1-0.2                                                     | SE208655.018 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP15_1.7-1.8                                                     | SE208655.019 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP16_0.1-0.2                                                     | SE208655.020 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP17_0.1-0.2                                                     | SE208655.021 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP18_0.1-0.2                                                     | SE208655.022 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP18_1.8-1.9                                                     | SE208655.023 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP19_0.1-0.2                                                     | SE208655.024 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| TP19_1.4-1.5                                                     | SE208655.025 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |
| QD1                                                              | SE208655.026 | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020 | 24 Aug 2020  | 20 Jul 2020 |



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.

| Volatile Petroleum Hydrocarbons in Soil (continued) Method: ME-(AU)-[i |                  |          |             |             |                |              |              | ME-(AU)-[ENV]AN43 |
|------------------------------------------------------------------------|------------------|----------|-------------|-------------|----------------|--------------|--------------|-------------------|
| Sample Name                                                            | Sample No.       | QC Ref   | Sampled     | Received    | Extraction Due | Extracted    | Analysis Due | Analysed          |
| QD2                                                                    | SE208655.027     | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020  | 24 Aug 2020  | 20 Jul 2020       |
| QTB1                                                                   | SE208655.029     | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020  | 24 Aug 2020  | 20 Jul 2020       |
| QTS1                                                                   | SE208655.030     | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020  | 24 Aug 2020  | 20 Jul 2020       |
| BH1_0.1-0.2                                                            | SE208655.031     | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020  | 24 Aug 2020  | 20 Jul 2020       |
| BH1_0.7-0.8                                                            | SE208655.032     | LB204340 | 08 Jul 2020 | 13 Jul 2020 | 22 Jul 2020    | 15 Jul 2020  | 24 Aug 2020  | 20 Jul 2020       |
| Volatile Petroleum Hydro                                               | carbons in Water |          |             |             |                |              | Method: I    | ME-(AU)-[ENV]AN4  |
| Sample Name                                                            | Sample No.       | QC Ref   | Sampled     | Received    | Extraction Due | Extracted    | Analysis Due | Analysed          |
| QR1                                                                    | SE208655.028     | LB204439 | 08 Jul 2020 | 13 Jul 2020 | 15 Jul 2020    | 16 Jul 2020† | 25 Aug 2020  | 17 Jul 2020       |



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.

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Method: ME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arameter                                     | Sample Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sample Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recovery                                                                                                                                                                                                                                                                                                                                                                                                                          |
| etrachloro-m-xylene (TCMX) (Surrogate)       | TP7_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 103                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP7_1.3-1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 105                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP8_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP8_0.9-1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 98                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                              | TP9_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 105                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP9_1.2-1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 107                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP10_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP11_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 106                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP11_0.8-0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP12_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 107                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP12_0.8-0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP12_1.7-1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 109                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP13_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 109                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP13_1.2-1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 103                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP13_2.0-2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 102                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP14_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP14_1.5-1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 93                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                              | TP15_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SE208655.019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                              | TP15_1.7-1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.019<br>SE208655.020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 103                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP16_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 106                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | <u>TP17_0.1-0.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SE208655.021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP18_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 113                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SE208655.023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 110                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP19_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 106                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | TP19_1.4-1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SE208655.025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 107                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | BH1_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.031                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 109                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                              | BH1_0.7-0.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 122                                                                                                                                                                                                                                                                                                                                                                                                                               |
| P <mark>esticides in Soil</mark><br>arameter | Sample Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sample Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (AU)-[ENV]-<br>Recover                                                                                                                                                                                                                                                                                                                                                                                                            |
| -fluorobiphenyl (Surrogate)                  | TP7_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 93                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                              | TP7_1.3-1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                              | TP7_1.3-1.4<br>TP8_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SE208655.002<br>SE208655.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                              | TP8_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SE208655.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 71<br>96                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SE208655.003<br>SE208655.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60 - 130%<br>60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 71<br>96<br>89                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SE208655.003<br>SE208655.004<br>SE208655.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 71<br>96<br>89<br>72                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003<br>SE208655.004<br>SE208655.005<br>SE208655.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 71<br>96<br>89<br>72<br>72                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3<br>TP10_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003<br>SE208655.004<br>SE208655.005<br>SE208655.006<br>SE208655.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 71<br>96<br>89<br>72<br>72<br>72                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3<br>TP10_0.1-0.2<br>TP11_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003<br>SE208655.004<br>SE208655.005<br>SE208655.006<br>SE208655.007<br>SE208655.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 71<br>96<br>89<br>72<br>72<br>72<br>72<br>92                                                                                                                                                                                                                                                                                                                                                                                      |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3<br>TP10_0.1-0.2<br>TP11_0.1-0.2<br>TP11_0.8-0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003<br>SE208655.004<br>SE208655.005<br>SE208655.006<br>SE208655.007<br>SE208655.008<br>SE208655.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 71<br>96<br>89<br>72<br>72<br>72<br>72<br>92<br>92<br>77                                                                                                                                                                                                                                                                                                                                                                          |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3<br>TP10_0.1-0.2<br>TP11_0.1-0.2<br>TP11_0.8-0.9<br>TP12_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003<br>SE208655.004<br>SE208655.005<br>SE208655.006<br>SE208655.007<br>SE208655.008<br>SE208655.009<br>SE208655.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | %<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>77<br>78                                                                                                                                                                                                                                                                                                                                                                          |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3<br>TP10_0.1-0.2<br>TP11_0.1-0.2<br>TP11_0.8-0.9<br>TP12_0.1-0.2<br>TP12_0.8-0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | %<br>%<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                               | 60 - 130%<br>60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>77<br>78<br>101                                                                                                                                                                                                                                                                                                                                                                   |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2.0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | %<br>%<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                               | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>77<br>78<br>101<br>88                                                                                                                                                                                                                                                                                                                                                             |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.8-0.9         TP12_0.8-0.9         TP13_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | %<br>%<br>%<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                          | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94                                                                                                                                                                                                                                                                                                                                                             |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.8-0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_1.2-1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | %<br>%<br>%<br>%<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>97<br>77<br>78<br>101<br>88<br>94<br>82                                                                                                                                                                                                                                                                                                                                                 |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.8-0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_1.2-1.3         TP13_0.2-2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015                                                                                                                                                                                                                                                                                                                                                                                                                                                      | %<br>%<br>%<br>%<br>%<br>%<br>%<br>%<br>%                                                                                                                                                                                                                                                                                                                                                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 71<br>96<br>89<br>72<br>72<br>92<br>97<br>77<br>78<br>101<br>88<br>94<br>82<br>76                                                                                                                                                                                                                                                                                                                                                 |
|                                              | TP8_0.1-0.2<br>TP8_0.9-1.0<br>TP9_0.1-0.2<br>TP9_1.2-1.3<br>TP10_0.1-0.2<br>TP11_0.1-0.2<br>TP11_0.8-0.9<br>TP12_0.1-0.2<br>TP12_0.8-0.9<br>TP12_0.1-0.2<br>TP13_1.2-1.8<br>TP13_0.1-0.2<br>TP13_1.2-1.3<br>TP13_2.0-2.1<br>TP14_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016                                                                                                                                                                                                                                                                                                                                                                                                                               | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91                                                                                                                                                                                                                                                                                                                                                 |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_0.1-0.2         TP10_0.1-0.2         TP11_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_0.1-0.2         TP14_1.5-1.6                                                                                                                                                                                                                                                                                                                                                                                             | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017                                                                                                                                                                                                                                                                                                                                                                                                        | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71<br>96<br>89<br>72<br>72<br>92<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81                                                                                                                                                                                                                                                                                                                                     |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.8-0.9         TP12_1.7-1.8         TP13_0.1-0.2         TP13_0.2-0.2         TP13_0.1-0.2         TP14_0.1-0.2         TP14_1.5-1.6         TP15_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                                  | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.017           SE208655.017           SE208655.018                                                                                                                                                                                                                                                                                                                                                                                 | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                                                                                 | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89                                                                                                                                                                                                                                                                                                                                     |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.2-0.2         TP13_0.2-0.2         TP14_0.1-0.2         TP14_0.1-0.2         TP14_0.1-0.2         TP15_0.1-0.2         TP15_1.7-1.8                                                                                                                                                                                                                                                                                                                                                                            | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.018           SE208655.019                                                                                                                                                                                                                                                                                                                                                          | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                                                         | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81                                                                                                                                                                                                                                                                                                                                           |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_1.5-1.6         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                            | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.019           SE208655.019                                                                                                                                                                                                                                                                                                            | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>81<br>89<br>93<br>86                                                                                                                                                                                                                                                                                                                   |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.2-0.2         TP13_0.2-0.2         TP14_0.1-0.2         TP14_0.1-0.2         TP14_0.1-0.2         TP15_0.1-0.2         TP15_1.7-1.8                                                                                                                                                                                                                                                                                                                                                                            | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.017           SE208655.018           SE208655.019           SE208655.019           SE208655.019           SE208655.019           SE208655.019           SE208655.020           SE208655.021                                                                                                                                                                                                                                       | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                                                         | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93                                                                                                                                                                                                                                                                                                                               |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_1.5-1.6         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                            | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.019           SE208655.019                                                                                                                                                                                                                                                                                                            | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>81<br>89<br>93<br>86                                                                                                                                                                                                                                                                                                                   |
|                                              | TP8_0.1-0.2         TP9_0.1-0.2         TP9_0.1-0.2         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_1.5-1.6         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                                                | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.017           SE208655.018           SE208655.019           SE208655.019           SE208655.019           SE208655.019           SE208655.019           SE208655.020           SE208655.021                                                                                                                                                                                                                                       | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>81<br>89<br>93<br>86<br>90                                                                                                                                                                                                                                                                                                             |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.8-0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_1.2-1.3         TP14_0.1-0.2         TP14_1.5-1.6         TP15_0.1-0.2         TP15_1.7-1.8         TP16_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                        | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.019           SE208655.019           SE208655.019           SE208655.019           SE208655.019           SE208655.020           SE208655.021           SE208655.021           SE208655.021           SE208655.021                                                                                                                                                                  | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                                 | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>89                                                                                                                                                                                                                                                                                                             |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.8-0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_1.5-1.6         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP16_0.1-0.2         TP18_1.8-1.9                                                                                                                                                                                                                                                                                                                                                                                             | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.020           SE208655.021           SE208655.021           SE208655.022           SE208655.023                                                                                                                                                                                                                                       | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>97<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>89<br>100                                                                                                                                                                                                                                                                                          |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.8-0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_1.2-1.3         TP14_0.1-0.2         TP14_0.1-0.2         TP15_1.7-1.8         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP16_0.1-0.2         TP18_1.8-1.9         TP18_0.1-0.2                                                                                                                                                                                                                                                                                                                                                                        | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.009           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.023           SE208655.024                                                                                                                    | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>93<br>86<br>90<br>90                                                                                                                                                                                                                                                                                     |
|                                              | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.8-0.9         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_1.2-1.3         TP14_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP16_0.1-0.2         TP18_1.8-1.9         TP19_0.1-0.2         TP18_1.4-1.5                                                                                                                                                                                                                                                                                                                                                                        | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.007           SE208655.009           SE208655.009           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.019           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.021           SE208655.023           SE208655.024           SE208655.025                                                                                             | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 71<br>96<br>89<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>90<br>89<br>100<br>94<br>85                                                                                                                                                                                                                                                                                    |
| 14-p-terphenyl (Surrogate)                   | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP16_0.1-0.2         TP18_0.1-0.2         TP18_0.1-0.2         TP19_0.1-0.2         TP19_0.1-0.2         TP19_1.4-1.5         BH1_0.1-0.2                                                                                                                                                                                                                                           | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.020           SE208655.021           SE208655.021           SE208655.023           SE208655.024           SE208655.025           SE208655.024           SE208655.021           SE208655.023           SE208655.024           SE208655.025           SE208655.031           SE208655.032 | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           % | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130% <td< td=""><td>71<br/>96<br/>89<br/>72<br/>72<br/>72<br/>92<br/>77<br/>78<br/>101<br/>88<br/>94<br/>82<br/>76<br/>91<br/>81<br/>89<br/>93<br/>86<br/>90<br/>93<br/>89<br/>93<br/>85<br/>90</td></td<>                                                                                                                                                                                                                                                                                                                            | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>93<br>89<br>93<br>85<br>90                                                                                                                                                                                                                                                                               |
| 14-p-terphenyl (Surrogate)                   | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_0.1-0.2         TP10_0.1-0.2         TP11_0.1-0.2         TP11_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_1.2-1.3         TP13_0.1-0.2         TP14_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP16_0.1-0.2         TP18_0.1-0.2         TP18_0.1-0.2         TP19_0.1-0.2         TP19_1_0.1-0.2         BH1_0.1-0.2         BH1_0.1-0.2         BH1_0.1-0.2 | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.014           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.020           SE208655.021           SE208655.021           SE208655.023           SE208655.024           SE208655.031           SE208655.031           SE208655.032           SE208655.032           SE208655.032                                                                                                                    | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %                                     | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130% <td< td=""><td>71<br/>96<br/>89<br/>72<br/>72<br/>72<br/>92<br/>77<br/>78<br/>101<br/>88<br/>94<br/>82<br/>76<br/>91<br/>81<br/>89<br/>93<br/>86<br/>90<br/>93<br/>86<br/>90<br/>93<br/>86<br/>90<br/>93<br/>89<br/>93<br/>86<br/>90<br/>93<br/>89<br/>93<br/>80<br/>93<br/>93<br/>80<br/>93<br/>80<br/>93<br/>80<br/>93<br/>80<br/>93<br/>80<br/>93<br/>80<br/>93<br/>80<br/>93<br/>80<br/>80<br/>93<br/>80<br/>80<br/>93<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80<br/>80</td></td<> | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>93<br>86<br>90<br>93<br>86<br>90<br>93<br>89<br>93<br>86<br>90<br>93<br>89<br>93<br>80<br>93<br>93<br>80<br>93<br>80<br>93<br>80<br>93<br>80<br>93<br>80<br>93<br>80<br>93<br>80<br>93<br>80<br>80<br>93<br>80<br>80<br>93<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 |
| 14-p-terphenyl (Surrogate)                   | TP8_0.1-0.2         TP8_0.9-1.0         TP9_0.1-0.2         TP9_1.2-1.3         TP10_0.1-0.2         TP11_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP12_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP13_0.1-0.2         TP14_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP15_0.1-0.2         TP16_0.1-0.2         TP18_0.1-0.2         TP18_0.1-0.2         TP19_0.1-0.2         TP19_0.1-0.2         TP19_1.4-1.5         BH1_0.1-0.2                                                                                                                                                                                                                                           | SE208655.003           SE208655.004           SE208655.005           SE208655.006           SE208655.007           SE208655.008           SE208655.009           SE208655.010           SE208655.010           SE208655.011           SE208655.012           SE208655.013           SE208655.013           SE208655.014           SE208655.015           SE208655.016           SE208655.017           SE208655.018           SE208655.019           SE208655.020           SE208655.021           SE208655.021           SE208655.023           SE208655.024           SE208655.025           SE208655.024           SE208655.021           SE208655.023           SE208655.024           SE208655.025           SE208655.031           SE208655.032 | %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           % | 60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130%           60 - 130% <td< td=""><td>71<br/>96<br/>89<br/>72<br/>72<br/>72<br/>92<br/>77<br/>78<br/>101<br/>88<br/>94<br/>82<br/>76<br/>91<br/>81<br/>89<br/>93<br/>86<br/>90<br/>89<br/>93<br/>86<br/>90<br/>93<br/>89<br/>100<br/>94<br/>85<br/>92<br/>96</td></td<>                                                                                                                                                                                                                                                                                 | 71<br>96<br>89<br>72<br>72<br>72<br>92<br>77<br>78<br>101<br>88<br>94<br>82<br>76<br>91<br>81<br>89<br>93<br>86<br>90<br>89<br>93<br>86<br>90<br>93<br>89<br>100<br>94<br>85<br>92<br>96                                                                                                                                                                                                                                          |



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

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

#### **OP Pesticides in Soil (continued)** Method: ME-(AU)-[ENV]AN420 Recovery % Parameter Units Criteria Sample Name Sample Number d14-p-terphenyl (Surrogate) TP9\_0.1-0.2 SE208655.005 % 60 - 130% 80 TP9\_1.2-1.3 SE208655.006 60 - 130% % 100 TP10 0.1-0.2 SE208655.007 % 60 - 130% 90 TP11\_0.1-0.2 SE208655.008 60 - 130% 83 % SE208655.009 TP11\_0.8-0.9 60 - 130% 79 % TP12 0.1-0.2 SE208655.010 % 60 - 130% 97 TP12\_0.8-0.9 SE208655.011 % 60 - 130% 90 TP12\_1.7-1.8 SE208655.012 % 60 - 130% 89 TP13 0.1-0.2 SE208655.013 % 60 - 130% 93 TP13\_1.2-1.3 SE208655.014 % 60 - 130% 85 TP13\_2.0-2.1 SE208655.015 % 60 - 130% 81 SE208655.016 TP14 0.1-0.2 % 60 - 130% 87 TP14 1.5-1.6 SE208655.017 % 60 - 130% 75 TP15\_0.1-0.2 SE208655.018 % 60 - 130% 85 TP15 1.7-1.8 SE208655.019 % 60 - 130% 91 TP16\_0.1-0.2 SE208655.020 % 60 - 130% 84 TP17\_0.1-0.2 SE208655.021 % 60 - 130% 89 TP18 0.1-0.2 SE208655.022 % 60 - 130% 87 TP18\_1.8-1.9 SE208655.023 % 60 - 130% 97 TP19\_0.1-0.2 SE208655.024 60 - 130% 93 % TP19 1.4-1.5 SE208655.025 % 60 - 130% 84 BH1\_0.1-0.2 SE208655.031 60 - 130% 90 % BH1\_0.7-0.8 SE208655.032 % 60 - 130% 98 PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420 Recovery % Parameter Sample Name Sample Numb Units Criteria 2-fluorobiphenyl (Surrogate) SE208655.001 TP7\_0.1-0.2 % 70 - 130% 93 SE208655.002 70 - 130% TP7\_1.3-1.4 % 90 TP8 0.1-0.2 SE208655.003 % 70 - 130% 96 TP8\_0.9-1.0 SE208655.004 % 70 - 130% 80 TP9\_0.1-0.2 SE208655.005 % 70 - 130% 72 TP9 1.2-1.3 SE208655.006 % 70 - 130% 72 TP10\_0.1-0.2 SE208655.007 % 70 - 130% 72 TP11\_0.1-0.2 SE208655.008 % 70 - 130% 92 TP11 0.8-0.9 SE208655.009 % 70 - 130% 77 TP12\_0.1-0.2 SE208655.010 % 70 - 130% 78 TP12\_0.8-0.9 SE208655.011 70 - 130% 101 % SE208655.012 TP12 1.7-1.8 % 70 - 130% 88 TP13\_0.1-0.2 SE208655.013 % 70 - 130% 94 TP13\_1.2-1.3 SE208655.014 % 70 - 130% 82 TP13 2.0-2.1 SE208655.015 % 70 - 130% 76 TP14\_0.1-0.2 SE208655.016 70 - 130% 91 % TP14\_1.5-1.6 SE208655.017 % 70 - 130% 81 TP15 0.1-0.2 SE208655.018 % 70 - 130% 89 TP15\_1.7-1.8 SE208655.019 70 - 130% 93 % TP16\_0.1-0.2 SE208655.020 70 - 130% 86 % TP17 0.1-0.2 SE208655.021 % 70 - 130% 90 TP18\_0.1-0.2 SE208655.022 % 70 - 130% 89 TP18\_1.8-1.9 SE208655.023 % 70 - 130% 100 TP19 0.1-0.2 SE208655.024 % 70 - 130% 94 TP19\_1.4-1.5 SE208655.025 % 70 - 130% 85 BH1\_0.1-0.2 SE208655.031 % 70 - 130% 92 SE208655.032 BH1 0.7-0.8 % 70 - 130% 96 d14-p-terphenyl (Surrogate) TP7\_0.1-0.2 SE208655.001 % 70 - 130% 92 TP7\_1.3-1.4 SE208655.002 % 70 - 130% 97 TP8 0.1-0.2 SE208655.003 % 70 - 130% 82 TP8\_0.9-1.0 SE208655.004 % 70 - 130% 97 TP9\_0.1-0.2 SE208655.005 70 - 130% 80 % TP9 1.2-1.3 SE208655.006 % 70 - 130% 100 TP10\_0.1-0.2 SE208655.007 % 70 - 130% 90 TP11\_0.1-0.2 SE208655.008 70 - 130% % 83



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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| PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) |              |               |       |            | -(AU)-[ENV]AN4 |
|-------------------------------------------------------------|--------------|---------------|-------|------------|----------------|
| Parameter                                                   | Sample Name  | Sample Number | Units | Criteria   | Recovery %     |
| d14-p-terphenyl (Surrogate)                                 | TP11_0.8-0.9 | SE208655.009  | %     | 70 - 130%  | 79             |
|                                                             | TP12_0.1-0.2 | SE208655.010  | %     | 70 - 130%  | 97             |
|                                                             | TP12_0.8-0.9 | SE208655.011  | %     | 70 - 130%  | 90             |
|                                                             | TP12_1.7-1.8 | SE208655.012  | %     | 70 - 130%  | 89             |
|                                                             | TP13_0.1-0.2 | SE208655.013  | %     | 70 - 130%  | 93             |
|                                                             | TP13_1.2-1.3 | SE208655.014  | %     | 70 - 130%  | 85             |
|                                                             | TP13_2.0-2.1 | SE208655.015  | %     | 70 - 130%  | 81             |
|                                                             | TP14_0.1-0.2 | SE208655.016  | %     | 70 - 130%  | 87             |
|                                                             | TP14_1.5-1.6 | SE208655.017  | %     | 70 - 130%  | 75             |
|                                                             | TP15_0.1-0.2 | SE208655.018  | %     | 70 - 130%  | 85             |
|                                                             | TP15_1.7-1.8 | SE208655.019  | %     | 70 - 130%  | 91             |
|                                                             | TP16_0.1-0.2 | SE208655.020  | %     | 70 - 130%  | 84             |
|                                                             | TP17_0.1-0.2 | SE208655.021  | %     | 70 - 130%  | 89             |
|                                                             | TP18_0.1-0.2 | SE208655.022  | %     | 70 - 130%  | 87             |
|                                                             | TP18_1.8-1.9 | SE208655.023  | %     | 70 - 130%  | 97             |
|                                                             | TP19_0.1-0.2 | SE208655.024  | %     | 70 - 130%  | 93             |
|                                                             | TP19_1.4-1.5 | SE208655.025  | %     | 70 - 130%  | 84             |
|                                                             | BH1_0.1-0.2  | SE208655.031  | %     | 70 - 130%  | 90             |
|                                                             | BH1_0.7-0.8  | SE208655.032  | %     | 70 - 130%  | 98             |
| d5-nitrobenzene (Surrogate)                                 | TP7_0.1-0.2  | SE208655.001  | %     | 70 - 130%  | 87             |
|                                                             | TP7_1.3-1.4  | SE208655.002  | %     | 70 - 130%  | 84             |
|                                                             | TP8_0.1-0.2  | SE208655.003  | %     | 70 - 130%  | 84             |
|                                                             | TP8_0.9-1.0  | SE208655.004  | %     | 70 - 130%  | 86             |
|                                                             | TP9_0.1-0.2  | SE208655.005  | %     | 70 - 130%  | 82             |
|                                                             | TP9_1.2-1.3  | SE208655.006  | %     | 70 - 130%  | 87             |
|                                                             | TP10_0.1-0.2 | SE208655.007  | %     | 70 - 130%  | 82             |
|                                                             | TP11_0.1-0.2 | SE208655.008  | %     | 70 - 130%  | 86             |
|                                                             | TP11_0.8-0.9 | SE208655.009  | %     | 70 - 130%  | 88             |
|                                                             | TP12_0.1-0.2 | SE208655.010  | %     | 70 - 130%  | 84             |
|                                                             | TP12_0.8-0.9 | SE208655.011  | %     | 70 - 130%  | 85             |
|                                                             | TP12_1.7-1.8 | SE208655.012  | %     | 70 - 130%  | 86             |
|                                                             | TP13_0.1-0.2 | SE208655.013  | %     | 70 - 130%  | 88             |
|                                                             | TP13_1.2-1.3 | SE208655.014  | %     | 70 - 130%  | 90             |
|                                                             | TP13_2.0-2.1 | SE208655.015  | %     | 70 - 130%  | 84             |
|                                                             | TP14_0.1-0.2 | SE208655.016  | %     | 70 - 130%  | 84             |
|                                                             | TP14_1.5-1.6 | SE208655.017  | %     | 70 - 130%  | 73             |
|                                                             | TP15_0.1-0.2 | SE208655.018  | %     | 70 - 130%  | 82             |
|                                                             | TP15_1.7-1.8 | SE208655.019  | %     | 70 - 130%  | 87             |
|                                                             | TP16_0.1-0.2 | SE208655.020  | %     | 70 - 130%  | 82             |
|                                                             | TP17_0.1-0.2 | SE208655.021  | %     | 70 - 130%  | 88             |
|                                                             | TP18_0.1-0.2 | SE208655.022  | %     | 70 - 130%  | 89             |
|                                                             | TP18_1.8-1.9 | SE208655.023  | %     | 70 - 130%  | 100            |
|                                                             | TP19_0.1-0.2 | SE208655.024  | %     | 70 - 130%  | 98             |
|                                                             | TP19_0.1-0.2 | SE208655.025  | %     | 70 - 130%  | 86             |
|                                                             |              |               |       |            |                |
|                                                             | BH1_0.1-0.2  | SE208655.031  | %     | 70 - 130%  | 96             |
|                                                             | BH1_0.7-0.8  | SE208655.032  | %     | 70 - 130%  | 101            |
| CBs in Soil                                                 |              |               |       | Method: ME | -(AU)-[ENV]AN  |
| Parameter                                                   | Sample Name  | Sample Number | Units | Criteria   | Recovery %     |
| Tetrachloro-m-xylene (TCMX) (Surrogate)                     | _TP7_0.1-0.2 | SE208655.001  | %     | 60 - 130%  | 103            |
|                                                             | TP7_1.3-1.4  | SE208655.002  | %     | 60 - 130%  | 105            |
|                                                             | TP8_0.1-0.2  | SE208655.003  | %     | 60 - 130%  | 104            |
|                                                             | TP8_0.9-1.0  | SE208655.004  | %     | 60 - 130%  | 98             |
|                                                             | TP9_0.1-0.2  | SE208655.005  | %     | 60 - 130%  | 105            |
|                                                             | TP9_1.2-1.3  | SE208655.006  | %     | 60 - 130%  | 107            |
|                                                             | TP10 0.1-0.2 | SE208655.007  | %     | 60 - 130%  | 111            |
|                                                             | TP11_0.1-0.2 | SE208655.008  | %     | 60 - 130%  | 106            |
|                                                             | TP11_0.8-0.9 | SE208655.009  | %     | 60 - 130%  | 100            |
|                                                             | TP12_0.1-0.2 | SE208655.010  | %     | 60 - 130%  | 104            |
|                                                             |              |               |       |            |                |
|                                                             | TP12_0.8-0.9 | SE208655.011  | %     | 60 - 130%  | 104            |
|                                                             |              |               |       |            |                |

TP12\_1.7-1.8

SE208655.012

109

60 - 130%



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 Recovery % Units Criteria Parameter Sample Name Sample Number Tetrachloro-m-xylene (TCMX) (Surrogate) TP13\_0.1-0.2 SE208655.013 % 60 - 130% 109 TP13\_1.2-1.3 SE208655.014 60 - 130% % 103 TP13 2.0-2.1 SE208655.015 % 60 - 130% 102 TP14\_0.1-0.2 SE208655.016 60 - 130% 100 % TP14\_1.5-1.6 SE208655.017 60 - 130% 93 % TP15 0.1-0.2 SE208655.018 % 60 - 130% 104 TP15 1.7-1.8 SE208655.019 % 60 - 130% 103 TP16\_0.1-0.2 SE208655.020 % 60 - 130% 106 TP17 0.1-0.2 SE208655.021 % 60 - 130% 104 TP18\_0.1-0.2 SE208655.022 60 - 130% 113 % TP18\_1.8-1.9 SE208655.023 % 60 - 130% 110 SE208655.024 TP19 0.1-0.2 % 60 - 130% 106 TP19 1.4-1.5 SE208655.025 % 60 - 130% 107 BH1\_0.1-0.2 SE208655.031 60 - 130% 109 % SE208655.032 BH1 0.7-0.8 % 60 - 130% 122 VOC's in Soil Method: ME-(AU)-[ENVIAN433 Parameter Sample Name Sample Numb Criteria Recovery % TP7\_0.1-0.2 SE208655.001 60 - 130% 71 Bromofluorobenzene (Surrogate) % TP7 1.3-1.4 SE208655.002 % 60 - 130% 68 TP8\_0.1-0.2 SE208655.003 % 60 - 130% 72 TP8\_0.9-1.0 SE208655.004 60 - 130% 73 % TP9 0.1-0.2 SE208655.005 % 60 - 130% 70 TP9\_1.2-1.3 SE208655.006 60 - 130% 67 % TP10\_0.1-0.2 SE208655.007 69 60 - 130% % TP11 0.1-0.2 SE208655.008 % 60 - 130% 71 TP11\_0.8-0.9 SE208655.009 60 - 130% 68 % TP12\_0.1-0.2 SE208655.010 69 % 60 - 130% TP12 0.8-0.9 SE208655.011 % 60 - 130% 66 TP12\_1.7-1.8 SE208655.012 % 60 - 130% 70 TP13\_0.1-0.2 SE208655.013 % 60 - 130% 68 TP13 1.2-1.3 SE208655.014 % 60 - 130% 66 TP13\_2.0-2.1 SE208655.015 % 60 - 130% 67 TP14\_0.1-0.2 SE208655.016 % 60 - 130% 68 TP14 1.5-1.6 SE208655.017 % 60 - 130% 71 TP15\_0.1-0.2 SE208655.018 % 60 - 130% 69 TP15\_1.7-1.8 SE208655.019 60 - 130% 68 % TP16 0.1-0.2 SE208655.020 % 60 - 130% 77 TP17\_0.1-0.2 SE208655.021 % 60 - 130% 64 TP18\_0.1-0.2 SE208655.022 % 60 - 130% 68 TP18 1.8-1.9 SE208655.023 % 60 - 130% 67 TP19\_0.1-0.2 SE208655.024 60 - 130% 70 % TP19\_1.4-1.5 SE208655.025 60 - 130% 71

QD1

QD2

QTB1

QTS1

BH1\_0.1-0.2

BH1\_0.7-0.8

TP7 0.1-0.2

TP7\_1.3-1.4

TP8\_0.1-0.2

TP8 0.9-1.0

TP9\_0.1-0.2

TP9\_1.2-1.3

TP10 0.1-0.2

TP11\_0.1-0.2

TP11\_0.8-0.9

TP12 0.1-0.2

TP12\_0.8-0.9

TP12\_1.7-1.8

20/7/2020

d4-1.2-dichloroethane (Surrogate)

66

68

78

70

69

69

83

80

84

86

84

78

80

85

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82

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82

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60 - 130%

SE208655.026

SE208655.027

SE208655.029

SE208655.030

SE208655.031

SE208655.032

SE208655.001

SE208655.002

SE208655.003

SE208655.004

SE208655.005

SE208655.006

SE208655.007

SE208655.008

SE208655.009

SE208655.010

SE208655.011

SE208655.012



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.

| DC's in Soil (continued)                                                                                                                                          |                                  |                                               |                 |                                                                 | (AU)-[ENV]AN                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|-----------------|-----------------------------------------------------------------|---------------------------------------|
| arameter                                                                                                                                                          | Sample Name                      | Sample Number                                 | Units           | Criteria                                                        | Recovery %                            |
| 14-1,2-dichloroethane (Surrogate)                                                                                                                                 | TP13_0.1-0.2                     | SE208655.013                                  | %               | 60 - 130%                                                       | 80                                    |
|                                                                                                                                                                   | TP13_1.2-1.3                     | SE208655.014                                  | %               | 60 - 130%                                                       | 78                                    |
|                                                                                                                                                                   | TP13_2.0-2.1                     | SE208655.015                                  | %               | 60 - 130%                                                       | 79                                    |
|                                                                                                                                                                   | TP14_0.1-0.2                     | SE208655.016                                  | %               | 60 - 130%                                                       | 81                                    |
|                                                                                                                                                                   | TP14_1.5-1.6                     | SE208655.017                                  | %               | 60 - 130%                                                       | 87                                    |
|                                                                                                                                                                   | TP15_0.1-0.2                     | SE208655.018                                  | %               | 60 - 130%                                                       | 86                                    |
|                                                                                                                                                                   | TP15_1.7-1.8                     | SE208655.019                                  | %               | 60 - 130%                                                       | 85                                    |
|                                                                                                                                                                   | TP16_0.1-0.2                     | SE208655.020                                  | %               | 60 - 130%                                                       | 95                                    |
|                                                                                                                                                                   | TP17_0.1-0.2                     | SE208655.021                                  | %               | 60 - 130%                                                       | 80                                    |
|                                                                                                                                                                   | TP18_0.1-0.2                     | SE208655.022                                  | %               | 60 - 130%                                                       | 85                                    |
|                                                                                                                                                                   | TP18_1.8-1.9                     | SE208655.023                                  | %               | 60 - 130%                                                       | 84                                    |
|                                                                                                                                                                   | TP19_0.1-0.2                     | SE208655.024                                  | %               | 60 - 130%                                                       | 89                                    |
|                                                                                                                                                                   | TP19_1.4-1.5                     | SE208655.025                                  | %               | 60 - 130%                                                       | 89                                    |
|                                                                                                                                                                   | QD1                              | SE208655.026                                  | %               | 60 - 130%                                                       | 84                                    |
|                                                                                                                                                                   | QD2                              | SE208655.027                                  | %               | 60 - 130%                                                       | 85                                    |
|                                                                                                                                                                   | QTB1                             | SE208655.029                                  | %               | 60 - 130%                                                       | 83                                    |
|                                                                                                                                                                   | QTS1                             | SE208655.030                                  | %               | 60 - 130%                                                       | 84                                    |
|                                                                                                                                                                   | BH1_0.1-0.2                      | SE208655.031                                  | %               | 60 - 130%                                                       | 86                                    |
|                                                                                                                                                                   | BH1_0.7-0.8                      | SE208655.032                                  | %               | 60 - 130%                                                       | 87                                    |
| d8-toluene (Surrogate)                                                                                                                                            | TP7_0.1-0.2                      | SE208655.001                                  | %               | 60 - 130%                                                       | 80                                    |
|                                                                                                                                                                   | TP7_1.3-1.4                      | SE208655.002                                  | %               | 60 - 130%                                                       | 75                                    |
|                                                                                                                                                                   | TP8_0.1-0.2                      | SE208655.003                                  | %               | 60 - 130%                                                       | 79                                    |
|                                                                                                                                                                   | TP8_0.9-1.0                      | SE208655.004                                  | %               | 60 - 130%                                                       | 83                                    |
|                                                                                                                                                                   | TP9_0.1-0.2                      | SE208655.005                                  | %               | 60 - 130%                                                       | 79                                    |
|                                                                                                                                                                   | TP9_1.2-1.3                      | SE208655.006                                  | %               | 60 - 130%                                                       | 75                                    |
|                                                                                                                                                                   | TP10_0.1-0.2                     | SE208655.007                                  | %               | 60 - 130%                                                       | 75                                    |
|                                                                                                                                                                   | TP11_0.1-0.2                     | SE208655.008                                  | %               | 60 - 130%                                                       | 78                                    |
|                                                                                                                                                                   | TP11_0.8-0.9                     | SE208655.009                                  | %               | 60 - 130%                                                       | 76                                    |
|                                                                                                                                                                   | TP12_0.1-0.2                     | SE208655.010                                  | %               | 60 - 130%                                                       | 78                                    |
|                                                                                                                                                                   | TP12_0.8-0.9                     | SE208655.011                                  | %               | 60 - 130%                                                       | 74                                    |
|                                                                                                                                                                   | TP12_1.7-1.8                     | SE208655.012                                  | %               | 60 - 130%                                                       | 79                                    |
|                                                                                                                                                                   | TP13_0.1-0.2                     | SE208655.013                                  | %               | 60 - 130%                                                       | 75                                    |
|                                                                                                                                                                   | TP13_1.2-1.3                     | SE208655.014                                  | %               | 60 - 130%                                                       | 73                                    |
|                                                                                                                                                                   | TP13_2.0-2.1                     | SE208655.015                                  | %               | 60 - 130%                                                       | 73                                    |
|                                                                                                                                                                   | TP14_0.1-0.2                     | SE208655.016                                  | %               | 60 - 130%                                                       | 77                                    |
|                                                                                                                                                                   | TP14_1.5-1.6                     | SE208655.017                                  | %               | 60 - 130%                                                       | 84                                    |
|                                                                                                                                                                   | TP15_0.1-0.2                     | SE208655.018                                  | %               | 60 - 130%                                                       | 83                                    |
|                                                                                                                                                                   | TP15_1.7-1.8                     | SE208655.019                                  | %               | 60 - 130%                                                       | 81                                    |
|                                                                                                                                                                   | TP16_0.1-0.2                     | SE208655.020                                  | %               | 60 - 130%                                                       | 91                                    |
|                                                                                                                                                                   | TP17 0.1-0.2                     | SE208655.021                                  | %               | 60 - 130%                                                       | 78                                    |
|                                                                                                                                                                   | TP18_0.1-0.2                     | SE208655.022                                  | %               | 60 - 130%                                                       | 82                                    |
|                                                                                                                                                                   | TP18 1.8-1.9                     | SE208655.023                                  | %               | 60 - 130%                                                       | 82                                    |
|                                                                                                                                                                   | TP19_0.1-0.2                     | SE208655.024                                  | %               | 60 - 130%                                                       | 86                                    |
|                                                                                                                                                                   | TP19_1.4-1.5                     | SE208655.025                                  | %               | 60 - 130%                                                       | 86                                    |
|                                                                                                                                                                   | QD1                              | SE208655.026                                  | %               | 60 - 130%                                                       | 81                                    |
|                                                                                                                                                                   | QD2                              | SE208655.027                                  | %               | 60 - 130%                                                       | 83                                    |
|                                                                                                                                                                   | QTB1                             | SE208655.029                                  | %               | 60 - 130%                                                       | 81                                    |
|                                                                                                                                                                   | QTS1                             | SE208655.030                                  | %               | 60 - 130%                                                       | 82                                    |
|                                                                                                                                                                   | BH1_0.1-0.2                      | SE208655.030                                  | %               | 60 - 130%                                                       | 85                                    |
|                                                                                                                                                                   | BH1 0.7-0.8                      | SE208655.032                                  | %               | 60 - 130%                                                       | 86                                    |
|                                                                                                                                                                   |                                  | 2220000.002                                   | 70              |                                                                 |                                       |
| No. In Michael                                                                                                                                                    |                                  |                                               |                 | Method: ME-                                                     |                                       |
|                                                                                                                                                                   |                                  | Sample Number                                 | Units           | Criteria                                                        | Recovery                              |
| arameter                                                                                                                                                          | Sample Name                      |                                               |                 |                                                                 | -                                     |
| arameter                                                                                                                                                          | Sample Name<br>QR1               | SE208655.028                                  | %               | 40 - 130%                                                       | 98                                    |
| DCs in Water<br>arameter<br>Bromofluorobenzene (Surrogate)<br>14-1,2-dichloroethane (Surrogate)                                                                   |                                  | SE208655.028<br>SE208655.028                  | %               | 40 - 130%<br>40 - 130%                                          | 98<br>110                             |
| arameter<br>Bromofluorobenzene (Surrogate)                                                                                                                        | QR1                              |                                               |                 |                                                                 |                                       |
| arameter<br>Bromofluorobenzene (Surrogate)<br>14-1,2-dichloroethane (Surrogate)                                                                                   | QR1<br>QR1                       | SE208655.028                                  | %               | 40 - 130%<br>40 - 130%                                          | 110<br>96                             |
| arameter<br>Bromofluorobenzene (Surrogate)<br>14-1,2-dichloroethane (Surrogate)<br>18-toluene (Surrogate)<br>o <mark>latile Petroleum Hydrocarbons in Soil</mark> | OR1<br>OR1<br>QR1<br>QR1         | SE208655.028<br>SE208655.028                  | %               | 40 - 130%<br>40 - 130%<br>Method: ME-                           | 110<br>96<br>•(AU)-[ENV]A             |
| arameter<br>Bromofluorobenzene (Surrogate)<br>14-1,2-dichloroethane (Surrogate)<br>18-toluene (Surrogate)<br>Isatile Petroleum Hydrocarbons in Soil<br>arameter   | OR1<br>OR1<br>OR1<br>Sample Name | SE208655.028<br>SE208655.028<br>Sample Number | %<br>%<br>Units | 40 - 130%<br>40 - 130%<br><mark>Method: ME</mark> -<br>Criteria | 110<br>96<br>-(AU)-[ENV]A<br>Recovery |
| arameter<br>Bromofluorobenzene (Surrogate)<br>14-1,2-dichloroethane (Surrogate)<br>18-toluene (Surrogate)<br>o <mark>latile Petroleum Hydrocarbons in Soil</mark> | OR1<br>OR1<br>QR1<br>QR1         | SE208655.028<br>SE208655.028                  | %               | 40 - 130%<br>40 - 130%<br>Method: ME-                           | 110<br>96<br>•(AU)-[ENV]A             |



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

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

#### Volatile Petroleum Hydrocarbons in Soil (continued) Method: ME-(AU)-[ENV]AN433 Recovery % Units Criteria Parameter Sample Name Sample Number Bromofluorobenzene (Surrogate) TP8\_0.9-1.0 SE208655.004 % 60 - 130% 73 TP9\_0.1-0.2 SE208655.005 60 - 130% 70 % TP9 1.2-1.3 SE208655.006 % 60 - 130% 67 TP10\_0.1-0.2 SE208655.007 60 - 130% 69 % TP11\_0.1-0.2 SE208655.008 60 - 130% 71 % TP11 0.8-0.9 SE208655.009 % 60 - 130% 68 TP12 0.1-0.2 SE208655.010 % 60 - 130% 69 TP12\_0.8-0.9 SE208655.011 % 60 - 130% 66 TP12 1.7-1.8 SE208655.012 % 60 - 130% 70 TP13 0.1-0.2 SE208655.013 % 60 - 130% 68 TP13\_1.2-1.3 SE208655.014 % 60 - 130% 66 SE208655.015 TP13 2.0-2.1 % 60 - 130% 67 TP14 0.1-0.2 SE208655.016 % 60 - 130% 68 TP14\_1.5-1.6 SE208655.017 % 60 - 130% 71 TP15 0.1-0.2 SE208655.018 % 60 - 130% 69 TP15\_1.7-1.8 SE208655.019 % 60 - 130% 68 TP16\_0.1-0.2 SE208655.020 % 60 - 130% 77 TP17 0.1-0.2 SE208655.021 % 60 - 130% 64 TP18\_0.1-0.2 SE208655.022 % 60 - 130% 68 TP18\_1.8-1.9 SE208655.023 60 - 130% 67 % TP19 0.1-0.2 SE208655.024 % 60 - 130% 70 TP19\_1.4-1.5 SE208655.025 60 - 130% 71 % QD1 SE208655.026 % 60 - 130% 66 QD2 SE208655.027 % 68 60 - 130% BH1 0.1-0.2 SE208655-031 % 60 - 130% 69 BH1\_0.7-0.8 SE208655.032 % 60 - 130% 69 d4-1,2-dichloroethane (Surrogate) SE208655.001 TP7\_0.1-0.2 % 60 - 130% 83 TP7 1.3-1.4 SE208655.002 % 60 - 130% 80 SE208655.003 TP8\_0.1-0.2 % 60 - 130% 84 TP8 0.9-1.0 SE208655.004 % 60 - 130% 86 TP9 0.1-0.2 SE208655.005 % 60 - 130% 84 TP9\_1.2-1.3 SE208655.006 % 60 - 130% 78 TP10 0.1-0.2 SE208655.007 % 60 - 130% 80 TP11 0.1-0.2 SE208655.008 % 60 - 130% 85 TP11\_0.8-0.9 SE208655.009 % 60 - 130% 79 SE208655.010 TP12 0.1-0.2 % 60 - 130% 82 TP12\_0.8-0.9 SE208655.011 60 - 130% 78 % TP12\_1.7-1.8 SE208655.012 % 60 - 130% 82 TP13 0.1-0.2 SE208655.013 % 60 - 130% 80 TP13 1 2-1 3 SE208655.014 % 60 - 130% 78 TP13\_2.0-2.1 SE208655.015 60 - 130% 79 % SE208655.016 TP14\_0.1-0.2 60 - 130% 81 % TP14 1.5-1.6 SE208655.017 % 60 - 130% 87 TP15\_0.1-0.2 SE208655.018 % 60 - 130% 86 SE208655.019 TP15 1.7-1.8 % 60 - 130% 85 TP16 0.1-0.2 SE208655.020 60 - 130% 95 % TP17\_0.1-0.2 SE208655.021 80 % 60 - 130% SE208655.022 TP18\_0.1-0.2 % 60 - 130% 85 TP18 1.8-1.9 SE208655.023 60 - 130% 84 % TP19\_0.1-0.2 SE208655.024 % 60 - 130% 89 TP19 1.4-1.5 SE208655.025 % 60 - 130% 89 OD1 SE208655.026 % 60 - 130% 84 QD2 SE208655.027 % 60 - 130% 85 BH1 0.1-0.2 SE208655.031 % 60 - 130% 86 BH1 0.7-0.8 SE208655.032 60 - 130% 87 % d8-toluene (Surrogate) TP7\_0.1-0.2 SE208655.001 60 - 130% 80 % SE208655.002 TP7\_1.3-1.4 60 - 130% 75 % TP8 0.1-0.2 SE208655.003 % 60 - 130% 79 TP8\_0.9-1.0 SE208655.004 60 - 130% 83 % SE208655.005 79 TP9 0.1-0.2 % 60 - 130% TP9\_1.2-1.3 SE208655.006 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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

#### Volatile Petroleum Hydrocarbons in Soil (continued) Method: ME-(AU)-[ENV]AN433 Units Recovery % Sample Name Sample Number Criteria Parameter d8-toluene (Surrogate) TP10\_0.1-0.2 SE208655.007 % 60 - 130% 75 TP11\_0.1-0.2 SE208655.008 % 60 - 130% 78 TP11 0.8-0.9 SE208655.009 % 60 - 130% 76 TP12\_0.1-0.2 SE208655.010 % 60 - 130% 78 TP12\_0.8-0.9 SE208655.011 % 60 - 130% 74 TP12 1.7-1.8 SE208655.012 % 60 - 130% 79 TP13\_0.1-0.2 SE208655.013 % 60 - 130% 75 TP13\_1.2-1.3 SE208655.014 60 - 130% 73 % SE208655.015 73 TP13 2.0-2.1 % 60 - 130% TP14\_0.1-0.2 SE208655.016 % 60 - 130% 77 TP14\_1.5-1.6 SE208655.017 60 - 130% 84 % SE208655.018 TP15 0.1-0.2 60 - 130% 83 % TP15 1.7-1.8 SE208655.019 % 60 - 130% 81 SE208655.020 60 - 130% 91 TP16\_0.1-0.2 % TP17 0.1-0.2 SE208655.021 % 60 - 130% 78 TP18\_0.1-0.2 SE208655.022 % 60 - 130% 82 TP18\_1.8-1.9 60 - 130% SE208655.023 % 82 TP19 0.1-0.2 SE208655.024 % 60 - 130% 86 TP19\_1.4-1.5 SE208655.025 % 60 - 130% 86 SE208655.026 QD1 % 60 - 130% 81 QD2 SE208655.027 % 60 - 130% 83 BH1\_0.1-0.2 SE208655.031 % 60 - 130% 85 BH1\_0.7-0.8 SE208655.032 % 60 - 130% 86 Volatile Petroleum Hydrocarbons in Water Method: ME-(AU)-[ENV]AN433 Deverseter 1 11 Linite Critorio Decessory 0/

| 1 arameter                        | oumple Mame | oumple Number | Unita | Onterna   | itecovery /0 |
|-----------------------------------|-------------|---------------|-------|-----------|--------------|
| Bromofluorobenzene (Surrogate)    | QR1         | SE208655.028  | %     | 40 - 130% | 98           |
| d4-1,2-dichloroethane (Surrogate) | QR1         | SE208655.028  | %     | 60 - 130% | 110          |
| d8-toluene (Surrogate)            | QR1         | SE208655.028  | %     | 40 - 130% | 96           |



## SE208655 R0

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)-[E | NV]AN311(Perth)/AN312 |
|------------------------------|-----------|-------|--------------------|-----------------------|
| Sample Number                | Parameter | Units | LOR                | Result                |
| LB204300.001                 | Mercury   | mg/L  | 0.0001             | <0.0001               |

## Mercury in Soil

| Mercury in Soil |           |       | М    | ethod: ME-(AU)-[ENV]AN312 |
|-----------------|-----------|-------|------|---------------------------|
| Sample Number   | Parameter | Units | LOR  | Result                    |
| LB204384.001    | Mercury   | mg/kg | 0.05 | <0.05                     |
| LB204386.001    | Mercury   | mg/kg | 0.05 | <0.05                     |

### **OC Pesticides in Soil**

| C Pesticides in Soil | Doromotor                               | Units          | LOR | od: ME-(AU)-[EN\<br>Result |
|----------------------|-----------------------------------------|----------------|-----|----------------------------|
| ample Number         | Parameter                               |                |     |                            |
| 204342.001           | Hexachlorobenzene (HCB)                 | mg/kg          | 0.1 | <0.1                       |
|                      | Alpha BHC                               | mg/kg          | 0.1 | <0.1                       |
|                      |                                         | mg/kg          | 0.1 | <0.1                       |
|                      | Heptachlor                              | mg/kg          | 0.1 | <0.1                       |
|                      | Aldrin                                  | mg/kg          | 0.1 | <0.1                       |
|                      | Beta BHC                                | mg/kg          | 0.1 | <0.1                       |
|                      | Delta BHC                               | mg/kg          | 0.1 | <0.1                       |
|                      | Heptachlor epoxide                      | mg/kg          | 0.1 | <0.1                       |
|                      | Alpha Endosulfan                        | mg/kg          | 0.2 | <0.2                       |
|                      | Gamma Chlordane                         | mg/kg          | 0.1 | <0.1                       |
|                      | Alpha Chlordane                         | mg/kg          | 0.1 | <0.1                       |
|                      | p,p'-DDE                                | mg/kg          | 0.1 | <0.1                       |
|                      | Dieldrin                                | mg/kg          | 0.2 | <0.2                       |
|                      | Endrin                                  | mg/kg          | 0.2 | <0.2                       |
|                      | Beta Endosulfan                         | mg/kg          | 0.2 | <0.2                       |
|                      | p,p'-DDD                                | mg/kg          | 0.1 | <0.1                       |
|                      | p,p'-DDT                                | mg/kg          | 0.1 | <0.1                       |
|                      | Endosulfan sulphate                     | mg/kg          | 0.1 | <0.1                       |
|                      | Endrin Aldehyde                         | mg/kg          | 0.1 | <0.1                       |
|                      | Methoxychlor                            | mg/kg          | 0.1 | <0.1                       |
|                      | Endrin Ketone                           | mg/kg          | 0.1 | <0.1                       |
|                      | Isodrin                                 | mg/kg          | 0.1 | <0.1                       |
|                      | Mirex                                   | mg/kg          | 0.1 | <0.1                       |
| Surrogates           | Tetrachloro-m-xylene (TCMX) (Surrogate) | %              | -   | 93                         |
| 204343.001           | Hexachlorobenzene (HCB)                 | mg/kg          | 0.1 | <0.1                       |
|                      | Alpha BHC                               | mg/kg          | 0.1 | <0.1                       |
|                      | Lindane                                 | mg/kg          | 0.1 | <0.1                       |
|                      | Heptachlor                              | mg/kg          | 0.1 | <0.1                       |
|                      | Aldrin                                  | mg/kg          | 0.1 | <0.1                       |
|                      | Beta BHC                                | mg/kg          | 0.1 | <0.1                       |
|                      | Delta BHC                               | mg/kg          | 0.1 | <0.1                       |
|                      | Heptachlor epoxide                      | mg/kg          | 0.1 | <0.1                       |
|                      | Alpha Endosulfan                        | mg/kg          | 0.2 | <0.2                       |
|                      | Gamma Chlordane                         | mg/kg          | 0.1 | <0.1                       |
|                      | Alpha Chlordane                         | mg/kg          | 0.1 | <0.1                       |
|                      | p,p'-DDE                                | mg/kg          | 0.1 | <0.1                       |
|                      | Dieldrin                                | mg/kg          | 0.2 | <0.2                       |
|                      | Endrin                                  | mg/kg          | 0.2 | <0.2                       |
|                      | Beta Endosulfan                         | mg/kg          | 0.2 | <0.2                       |
|                      | p,p'-DDD                                | mg/kg          | 0.2 | <0.2                       |
|                      | p,p'-DDT                                | mg/kg          | 0.1 | <0.1                       |
|                      | Endosulfan sulphate                     |                | 0.1 | <0.1                       |
|                      | Endrin Aldehyde                         | mg/kg<br>mg/kg | 0.1 | <0.1                       |
|                      |                                         |                |     | <0.1                       |
|                      | Methoxychlor                            | mg/kg          | 0.1 |                            |
|                      | Endrin Ketone                           | mg/kg          | 0.1 | <0.1                       |
|                      | Isodrin                                 | mg/kg          | 0.1 | <0.1                       |
|                      | Mirex                                   | mg/kg          | 0.1 | <0.1                       |



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Benzo(a)pyrene

Indeno(1,2,3-cd)pyrene

Dibenzo(ah)anthracene

d5-nitrobenzene (Surrogate)

2-fluorobiphenyl (Surrogate)

d14-p-terphenyl (Surrogate)

Benzo(ghi)perylene

Total PAH (18)

Naphthalene

2-methylnaphthalene

Acenaphthylene

Phenanthrene

Anthracene

Pyrene

Chrysene

Fluoranthene

Benzo(a)anthracene

Acenaphthene

Fluorene

1-methylnaphthalene

Surrogates

## OP Pesticides in Soil

| P Pesticides in Soil |                             |                                   |       |     | od: ME-(AU)-[ENV]AN |
|----------------------|-----------------------------|-----------------------------------|-------|-----|---------------------|
| ample Number         |                             | Parameter                         | Units | LOR | Result              |
| B204342.001          |                             | Dichlorvos                        | mg/kg | 0.5 | <0.5                |
|                      |                             | Dimethoate                        | mg/kg | 0.5 | <0.5                |
|                      |                             | Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5                |
|                      |                             | Fenitrothion                      | mg/kg | 0.2 | <0.2                |
|                      |                             | Malathion                         | mg/kg | 0.2 | <0.2                |
|                      |                             | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2                |
|                      |                             | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2                |
|                      |                             | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2                |
|                      |                             | Methidathion                      | mg/kg | 0.5 | <0.5                |
|                      |                             | Ethion                            | mg/kg | 0.2 | <0.2                |
|                      |                             | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2                |
|                      | Surrogates                  | 2-fluorobiphenyl (Surrogate)      | %     | -   | 84                  |
|                      |                             | d14-p-terphenyl (Surrogate)       | %     | -   | 82                  |
| LB204343.001         |                             | Dichlorvos                        | mg/kg | 0.5 | <0.5                |
|                      |                             | Dimethoate                        | mg/kg | 0.5 | <0.5                |
|                      |                             | Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5                |
|                      |                             | Fenitrothion                      | mg/kg | 0.2 | <0.2                |
|                      |                             | Malathion                         | mg/kg | 0.2 | <0.2                |
|                      |                             | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2                |
|                      |                             | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2                |
|                      |                             | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2                |
|                      |                             | Methidathion                      | mg/kg | 0.5 | <0.5                |
|                      |                             | Ethion                            | mg/kg | 0.2 | <0.2                |
|                      |                             | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2                |
|                      | Surrogates                  | 2-fluorobiphenyl (Surrogate)      | %     |     | 87                  |
|                      |                             | d14-p-terphenyl (Surrogate)       | %     | -   | 82                  |
| ALL (D. 1            |                             |                                   |       |     |                     |
|                      | matic Hydrocarbons) in Soil |                                   |       |     | od: ME-(AU)-[ENV]AN |
| ample Number         |                             | Parameter                         | Units | LOR | Result              |
| B204342.001          |                             | 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                |

LB204343.001

<0.1

<0.1

<0.1

< 0.1

<0.8

82

84

82

<0.1

< 0.1

<0.1

<0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

<0.1

<0.1

<0.1

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

%

%

%

mg/kg

0.1

0.1

0.1

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0.8

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0.1

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0.1



## SE208655 R0

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### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

| PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) Method: ME-( |            |                              |       |      |                        |
|--------------------------------------------------------------------------|------------|------------------------------|-------|------|------------------------|
| Sample Number                                                            |            | Parameter                    | Units | LOR  | Result                 |
| LB204343.001                                                             |            | 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)  | %     | -    | 81                     |
|                                                                          |            | 2-fluorobiphenyl (Surrogate) | %     | -    | 87                     |
|                                                                          |            | d14-p-terphenyl (Surrogate)  | %     | -    | 82                     |
| PCBs in Soil                                                             |            |                              |       | Meth | od: ME-(AU)-[ENV]AN420 |

## PCBs in Soil

| ODS III OOII  |            |                                         |       | Moun |        |
|---------------|------------|-----------------------------------------|-------|------|--------|
| Sample Number |            | Parameter                               | Units | LOR  | Result |
| LB204342.001  |            | Arochlor 1016                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1221                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1232                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1242                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1248                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1254                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1260                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1262                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1268                           | mg/kg | 0.2  | <0.2   |
|               |            | Total PCBs (Arochlors)                  | mg/kg | 1    | <1     |
|               | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -    | 93     |
| B204343.001   |            | Arochlor 1016                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1221                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1232                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1242                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1248                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1254                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1260                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1262                           | mg/kg | 0.2  | <0.2   |
|               |            | Arochlor 1268                           | mg/kg | 0.2  | <0.2   |
|               |            | Total PCBs (Arochlors)                  | mg/kg | 1    | <1     |
|               | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -    | 90     |

#### Method: ME-(AU)-[ENV]AN040/AN320 Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Sample Number LOR Parameter Units Result LB204380.001 Arsenic, As mg/kg 1 <1 Cadmium, Cd mg/kg 0.3 < 0.3 Chromium, Cr 0.5 <0.5 mg/kg Copper, Cu 0.5 <0.5 mg/kg Nickel, Ni mg/kg 0.5 < 0.5 Lead, Pb <1 mg/kg 1 Zinc, Zn mg/kg 2 <2.0 LB204381.001 Arsenic, As mg/kg 1 <1 Cadmium, Cd 0.3 <0.3 mg/kg 0.5 <0.5 Chromium, Cr mg/kg Copper, Cu mg/kg 0.5 < 0.5 Nickel, Ni 0.5 <0.5 mg/kg Lead, Pb <1 mg/kg 1 Zinc, Zn mg/kg 2 <2.0 Trace Metals (Dissolved) in Water by ICPMS Method: ME-(AU)-[ENV]AN318 Sample Number Paramet Units LOR Result

| LB204402.001                                 | Arsenic, As  | μg/L | 1     | <1                     |
|----------------------------------------------|--------------|------|-------|------------------------|
|                                              | Cadmium, Cd  | μg/L | 0.1   | <0.1                   |
|                                              | Chromium, Cr | μg/L | 1     | <1                     |
|                                              | Copper, Cu   | μg/L | 1     | <1                     |
|                                              | Lead, Pb     | μg/L | 1     | <1                     |
|                                              | Nickel, Ni   | μg/L | 1     | <1                     |
|                                              | Zinc, Zn     | μg/L | 5     | <5                     |
| TRH (Total Recoverable Hydrocarbons) in Soll |              |      | Metho | od: ME-(AU)-[ENV]AN403 |

LOR

Units



## SE208655 R0

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#### TRH (Total Recoverable Hydrocarbons) in Soil (continued) Method: ME-(AU)-[ENV]AN403 Sample Number Units LOR Result Parar LB204342.001 TRH C10-C14 mg/kg 20 <20 TRH C15-C28 mg/kg 45 <45 TRH C29-C36 45 <45 mg/kg TRH C37-C40 mg/kg 100 <100 TRH C10-C36 Total 110 <110 mg/kg LB204343.001 TRH C10-C14 20 <20 mg/kg TRH C15-C28 45 <45 mg/kg TRH C29-C36 mg/kg 45 <45 <100 TRH C37-C40 mg/kg 100 TRH C10-C36 Total mg/kg 110 <110 TRH (Total Recoverable Hydrocarbons) in Water Method: ME-(AU)-[ENV]AN403 Result Sample Number Parameter Units LOR LB204298.001 TRH C10-C14 50 <50 µg/L TRH C15-C28 µg/L 200 <200 TRH C29-C36 µg/L 200 <200 TRH C37-C40 200 <200 µg/L VOC's in Soil Method: ME-(AU)-JENVIAN433 Result Sample Numb Units Parameter I OR LB204339.001 Monocyclic Aromatic Benzene mg/kg 0.1 <0.1 Toluene 0.1 <0.1 Hydrocarbons mg/kg Ethylbenzene mg/kg 0.1 <0.1 m/p-xylene mg/kg 0.2 <0.2 0.1 <0.1 o-xylene mg/kg Polycyclic VOCs Naphthalene mg/kg 0.1 <0.1 d4-1,2-dichloroethane (Surrogate) 84 Surrogates % 89 d8-toluene (Surrogate) % Bromofluorobenzene (Surrogate) % 98 Totals Total BTEX 0.6 <0.6 mg/kg LB204340.001 Monocyclic Aromatic 0.1 <0.1 Benzene mg/kg Hydrocarbons Toluene mg/kg 0.1 <0.1 <0.1 Ethylbenzene 0.1 mg/kg m/p-xvlene ma/ka 0.2 <0.2 o-xylene mg/kg 0.1 <0.1 Polycyclic VOCs Naphthalene 0.1 <0.1 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) 79 % d8-toluene (Surrogate) % 74 -Bromofluorobenzene (Surrogate) % 79 Totals Total BTEX 0.6 <0.6 mg/kg VOCs in Water Method: ME-(AU)-IENVIAN433 Sample Number Parameter LOR Result LB204439.001 Monocyclic Aromatic Benzene 0.5 <0.5 µg/L Hydrocarbons Toluene 0.5 <0.5 µg/L Ethylbenzene µg/L 0.5 <0.5 m/p-xylene µg/L 1 <1 0.5 <0.5 o-xylene µg/L Polycyclic VOCs Naphthalene µg/L 0.5 <0.5 109 Surrogates d4-1,2-dichloroethane (Surrogate) % d8-toluene (Surrogate) % -95 Bromofluorobenzene (Surrogate) % 95 Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 Sample Number LOR Units Result Parameter LB204339.001 TRH C6-C9 mg/kg 20 <20 Surrogates d4-1,2-dichloroethane (Surrogate) % 84 LB204340.001 TRH C6-C9 20 <20 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) % 79 Volatile Petroleum Hydrocarbons in Water Method: ME-(AU)-[ENV]AN433 Sample Number Parameter LOR



# SE208655 R0

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## Volatile Petroleum Hydrocarbons in Water (continued)

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

| Sample Number |            | Parameter                         | Units | LOR | Result |
|---------------|------------|-----------------------------------|-------|-----|--------|
| LB204439.001  |            | TRH C6-C9                         | μg/L  | 40  | <40    |
|               | Surrogates | d4-1,2-dichloroethane (Surrogate) | %     | -   | 109    |
|               |            | d8-toluene (Surrogate)            | %     | -   | 95     |
|               |            | Bromofluorobenzene (Surrogate)    | %     | -   | 95     |



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.

| Mercury (dissolved) | ) in Water   |           |       |        | Metho    | d: ME-(AU)-[I | ENVJAN311(P | erth)/AN312 |
|---------------------|--------------|-----------|-------|--------|----------|---------------|-------------|-------------|
| Original            | Duplicate    | Parameter | Units | LOR    | Original | Duplicate     | Criteria %  | RPD %       |
| SE208675.021        | LB204300.007 | Mercury   | μg/L  | 0.0001 | <0.0001  | 0.0000        | 200         | 11          |

| Mercury in Soil    |              |            |                                         |       |      |          | Meth      | od: ME-(AU)  | -[ENV]AN31: |
|--------------------|--------------|------------|-----------------------------------------|-------|------|----------|-----------|--------------|-------------|
| Original           | Duplicate    |            | Parameter                               | Units | LOR  | Original | Duplicate | Criteria %   | RPD %       |
| SE208655.010       | LB204384.014 |            | Mercury                                 | mg/kg | 0.05 | <0.05    | <0.05     | 200          | 0           |
| SE208655.019       | LB204384.024 |            | Mercury                                 | mg/kg | 0.05 | <0.05    | <0.05     | 200          | 0           |
| SE208655.021       | LB204386.014 |            | Mercury                                 | mg/kg | 0.05 | <0.05    | <0.05     | 200          | 0           |
| SE208655.032       | LB204386.023 |            | Mercury                                 | mg/kg | 0.05 | <0.05    | <0.05     | 200          | 0           |
| Moisture Content   |              |            |                                         |       |      |          | Meth      | od: ME-(AU)  |             |
| Original           | Duplicate    |            | Parameter                               | Units | LOR  | Original |           | Criteria %   |             |
| SE208655.010       | LB204345.011 |            | % Moisture                              | %w/w  | 1    | 10.2     | 10.3      | 40           | 1           |
| SE208655.016       | LB204345.011 |            | % Moisture                              | %w/w  | 1    | 10.2     | 10.3      | 39           | 9           |
| SE208655.016       | LB204346.011 |            | % Moisture                              | %w/w  | 1    | 13.3     | 11.6      | 39           | 10          |
| SE208655.020       | LB204346.016 |            | % Moisture                              | %w/w  | 1    | 13.3     | 12.0      | 39           | 7           |
|                    |              |            | /a moisture                             | /0W/W | 1    | 11.0     |           |              |             |
| OC Pesticides in S | ioil         |            |                                         |       |      |          | Meth      | nod: ME-(AU) | -[ENV]AN42  |
| Original           | Duplicate    |            | Parameter                               | Units | LOR  | Original | Duplicate | Criteria %   | RPD %       |
| SE208655.010       | LB204342.014 |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Alpha BHC                               | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Lindane                                 | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Heptachlor                              | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Aldrin                                  | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Beta BHC                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Delta BHC                               | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Heptachlor epoxide                      | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | o,p'-DDE                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Alpha Endosulfan                        | mg/kg | 0.2  | <0.2     | <0.2      | 200          | 0           |
|                    |              |            | Gamma Chlordane                         | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Alpha Chlordane                         | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | trans-Nonachlor                         | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | p,p'-DDE                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Dieldrin                                | mg/kg | 0.2  | <0.2     | <0.2      | 200          | 0           |
|                    |              |            | Endrin                                  | mg/kg | 0.2  | <0.2     | <0.2      | 200          | 0           |
|                    |              |            | o,p'-DDD                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | o,p'-DDT                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Beta Endosulfan                         | mg/kg | 0.2  | <0.2     | <0.2      | 200          | 0           |
|                    |              |            | p,p'-DDD                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | p,p'-DDT                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Endosulfan sulphate                     | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Endrin Aldehyde                         | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Methoxychlor                            | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Endrin Ketone                           | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Isodrin                                 | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Mirex                                   | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Total CLP OC Pesticides                 | mg/kg | 1    | <1       | <1        | 200          | 0           |
|                    |              | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg |      | 0.16     | 0.16      | 30           | 1           |
| SE208655.016       | LB204342.021 |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Alpha BHC                               | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Lindane                                 | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Heptachlor                              | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Aldrin                                  | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Beta BHC                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Delta BHC                               | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Heptachlor epoxide                      | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | o,p'-DDE                                | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Alpha Endosulfan                        | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            | Gamma Chlordane                         |       | 0.2  | <0.2     | <0.2      | 200          | 0           |
|                    |              |            | Alpha Chlordane                         | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |
|                    |              |            |                                         | mg/kg |      |          |           |              |             |
|                    |              |            | trans-Nonachlor                         | mg/kg | 0.1  | <0.1     | <0.1      | 200          | 0           |



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.

| OC Pesticides in S | oil (continued) |            |                                         |       |     |          | Meth      | od: ME-(AU)- | -[ENV]AN4 |
|--------------------|-----------------|------------|-----------------------------------------|-------|-----|----------|-----------|--------------|-----------|
| Original           | Duplicate       |            | Parameter                               | Units | LOR | Original | Duplicate | Criteria %   | RPD %     |
| SE208655.016       | LB204342.021    |            | p,p'-DDE                                | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Dieldrin                                | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | Endrin                                  | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | o,p'-DDD                                | mg/kg | 0.1 | <0.2     | <0.1      | 200          | 0         |
|                    |                 |            |                                         |       | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | o,p'-DDT                                | mg/kg |     |          |           |              |           |
|                    |                 |            | Beta Endosulfan                         | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | p,p'-DDD                                | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | p,p'-DDT                                | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Endosulfan sulphate                     | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Endrin Aldehyde                         | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Methoxychlor                            | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Endrin Ketone                           | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Isodrin                                 | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Mirex                                   | mg/kg | 0.1 | <0.1     | <0.1      | 200          | 0         |
|                    |                 |            | Total CLP OC Pesticides                 | mg/kg | 1   | <1       | <1        | 200          | 0         |
|                    |                 | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0.15     | 0.16      | 30           | 5         |
| SE208655.025       | LB204343.019    |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Alpha BHC                               | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Lindane                                 | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            |                                         |       |     | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Heptachlor                              | mg/kg | 0.1 |          |           |              |           |
|                    |                 |            | Aldrin                                  | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Beta BHC                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Delta BHC                               | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Heptachlor epoxide                      | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | o,p'-DDE                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Alpha Endosulfan                        | mg/kg | 0.2 | <0.2     | 0         | 200          | 0         |
|                    |                 |            | Gamma Chlordane                         | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Alpha Chlordane                         | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | trans-Nonachlor                         | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | p,p'-DDE                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Dieldrin                                | mg/kg | 0.2 | <0.2     | 0         | 200          | 0         |
|                    |                 |            | Endrin                                  | mg/kg | 0.2 | <0.2     | 0         | 200          | 0         |
|                    |                 |            | o,p'-DDD                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | o,p'-DDT                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            |                                         |       | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Beta Endosulfan                         | mg/kg |     |          |           |              |           |
|                    |                 |            | p,p'-DDD                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | p,p'-DDT                                | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Endosulfan sulphate                     | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Endrin Aldehyde                         | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Methoxychlor                            | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Endrin Ketone                           | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Isodrin                                 | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Mirex                                   | mg/kg | 0.1 | <0.1     | 0         | 200          | 0         |
|                    |                 |            | Total CLP OC Pesticides                 | mg/kg | 1   | <1       | 0         | 200          | 0         |
|                    |                 | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0.16     | 0.168     | 30           | 4         |
|                    | - 9             |            |                                         |       |     |          |           |              | -         |
| P Pesticides in S  |                 |            |                                         |       |     |          |           | od: ME-(AU)- |           |
| Original           | Duplicate       |            | Parameter                               | Units | LOR | Original | Duplicate | Criteria %   | RPD %     |
| SE208655.010       | LB204342.014    |            | Dichlorvos                              | mg/kg | 0.5 | <0.5     | <0.5      | 200          | 0         |
|                    |                 |            | Dimethoate                              | mg/kg | 0.5 | <0.5     | <0.5      | 200          | 0         |
|                    |                 |            | Diazinon (Dimpylate)                    | mg/kg | 0.5 | <0.5     | <0.5      | 200          | 0         |
|                    |                 |            | Fenitrothion                            | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | Malathion                               | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | Chlorpyrifos (Chlorpyrifos Ethyl)       | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | Parathion-ethyl (Parathion)             |       | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            |                                         | mg/kg |     |          |           |              |           |
|                    |                 |            | Bromophos Ethyl                         | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | Methidathion                            | mg/kg | 0.5 | <0.5     | <0.5      | 200          | 0         |
|                    |                 |            | Ethion                                  | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            | Azinphos-methyl (Guthion)               | mg/kg | 0.2 | <0.2     | <0.2      | 200          | 0         |
|                    |                 |            |                                         |       |     |          |           |              |           |
|                    |                 |            | Total OP Pesticides*                    | mg/kg | 1.7 | <1.7     | <1.7      | 200          | 0         |



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.

| OP Pesticides in S                                           | oil (continued)           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                               | FNV/AN42                                                                                                                                                      |
|--------------------------------------------------------------|---------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------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| Original                                                     | Duplicate                 |              | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                               | RPD %                                                                                                                                                         |
| SE208655.010                                                 | LB204342.014              | Surragatas   | d14-p-terphenyl (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| SE208655.016                                                 | LB204342.014              | Surrogates   | Dichlorvos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 3E208055.010                                                 | LB204342.021              |              | Dimethoate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                                                              |                           |              | Diazinon (Dimpylate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                                                              |                           |              | Fenitrothion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                              |                           |              | Malathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                                                              |                           |              | Chlorpyrifos (Chlorpyrifos Ethyl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                                                              |                           |              | Parathion-ethyl (Parathion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                                                              |                           |              | Bromophos Ethyl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                                                              |                           |              | Methidathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                              |                           |              | Ethion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|                                                              |                           |              | Azinphos-methyl (Guthion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                                                              |                           | 0            | Total OP Pesticides*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                               | 0                                                                                                                                                             |
|                                                              |                           | Surrogates   | 2-fluorobiphenyl (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | 0.5                                                                                                                                                                                                                                                                    | 0.5                                                                                                                                                                                                                                                                       | 30                                                                      | 9                                                                                                                                                             |
|                                                              |                           |              | d14-p-terphenyl (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | 0.4                                                                                                                                                                                                                                                                    | 0.4                                                                                                                                                                                                                                                                       | 30                                                                      | 1                                                                                                                                                             |
| SE208655.025                                                 | LB204343.019              |              | Dichlorvos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Dimethoate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Diazinon (Dimpylate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Fenitrothion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                           | 0.2                                                                                         | <0.2                                                                                                                                                                                                                                                                   | 0.0524397049                                                                                                                                                                                                                                                              | 200                                                                     | 0                                                                                                                                                             |
|                                                              |                           |              | Malathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Chlorpyrifos (Chlorpyrifos Ethyl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Parathion-ethyl (Parathion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                                                              |                           |              | Bromophos Ethyl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Methidathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                              |                           |              | Ethion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                               | 0                                                                                                                                                             |
|                                                              |                           |              | Azinphos-methyl (Guthion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                                                              |                           |              | Total OP Pesticides*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                                                              |                           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                                                              |                           | Surrogates   | 2-fluorobiphenyl (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | 0.4                                                                                                                                                                                                                                                                    | 0.4239250481                                                                                                                                                                                                                                                              | 30                                                                      | 0                                                                                                                                                             |
|                                                              |                           | Surrogates   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                               | 0                                                                                                                                                             |
| PAH (Polynuclear A                                           | Aromatic Hydrocarbo       |              | 2-fluorobiphenyl (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                                                                           | 0.4                                                                                                                                                                                                                                                                    | 0.4239250481<br>0.4183620820                                                                                                                                                                                                                                              |                                                                         | 0                                                                                                                                                             |
|                                                              | -                         |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                                                                           | 0.4                                                                                                                                                                                                                                                                    | 0.4239250481<br>0.4183620820<br>Metho                                                                                                                                                                                                                                     | 30<br>od: ME-(AU)-                                                      | 0<br>[ENV]AN4                                                                                                                                                 |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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ME-(AU)-<br>Criteria %                                        | 0<br>[ENV]AN4<br>RPD %                                                                                                                                        |
| • <mark>AH (Polynuclear</mark> /<br>Original<br>SE208655.010 | -                         |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                           | -<br>-<br>0.1                                                                               | 0.4<br>0.4<br>Original<br><0.1                                                                                                                                                                                                                                         | 0.4239250481<br>0.4183620820<br>Metho<br>Duplicate<br><0.1                                                                                                                                                                                                                | 30<br>od: ME-(AU)- <br>Criteria %<br>200                                | 0<br>[ENV]AN4<br>RPD %<br>0                                                                                                                                   |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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<br>Criteria %<br>200<br>200                         | 0<br>[ENV]AN4<br>RPD %<br>0<br>0                                                                                                                              |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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ME-(AU)-<br>Criteria %<br>200<br>200<br>200                   | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0                                                                                                                         |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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%<br>200<br>200<br>200<br>200<br>200                     | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0<br>0                                                                                                                    |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene<br>Acenaphthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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%<br>200<br>200<br>200<br>200<br>200<br>200              | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0<br>0<br>0                                                                                                               |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)  Parameter Naphthalene 2-methylnaphthalene 1-methylnaphthalene Acenaphthylene Acenaphthene Fluorene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                                                                                                           | -<br>-<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                     | 0.4<br>0.4<br>Original<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                         | 0.4239250481<br>0.4183620820<br><b>Metho</b><br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                          |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene<br>Acenaphthene<br>Fluorene<br>Phenanthrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                           | -<br>-<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                     | 0.4<br>0.4<br>Original<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                 | 0.4239250481<br>0.4183620820<br><b>Metho</b><br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                  | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                     |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene<br>Acenaphthylene<br>Fluorene<br>Phenanthrene<br>Anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br><b>Original</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                          | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene<br>Acenaphthylene<br>Fluorene<br>Phenanthrene<br>Fluoranthene<br>Fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>ENVJAM4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>2                                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene<br>Acenaphthylene<br>Acenaphthene<br>Fluorene<br>Phenanthrene<br>Fluoranthene<br>Fluoranthene<br>Pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>ENVJAM4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>2<br>4                                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)<br>Parameter<br>Naphthalene<br>2-methylnaphthalene<br>1-methylnaphthalene<br>Acenaphthylene<br>Acenaphthylene<br>Acenaphthylene<br>Fluorene<br>Phenanthrene<br>Phenanthrene<br>Fluoranthene<br>Pyrene<br>Benzo(a)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AM4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>2<br>4<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Fluorene         Phenanthrene         Fluorene         Pyrene         Benzo(a)anthracene         Chrysene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AM4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>2<br>4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)  Parameter Naphthalene 2-methylnaphthalene 1-methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b&j)fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LOR<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                   | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br>Duplicate<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                 | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AM4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)      Parameter     Naphthalene     2-methylnaphthalene     1-methylnaphthalene     Acenaphthylene     Acenaphthylene     Acenaphthene     Fluorene     Phenanthrene     Anthracene     Fluoranthene     Pyrene     Benzo(a)anthracene     Chrysene     Benzo(b&)jfluoranthene     Benzo(k)fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Methe</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                              | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]ANA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)      Parameter      Naphthalene     2-methylnaphthalene     1-methylnaphthalene     Acenaphthylene     Acenaphthylene     Acenaphthene     Fluorene     Phenanthrene     Anthracene     Fluoranthene     Pyrene     Benzo(a)anthracene     Chrysene     Benzo(b&j)fluoranthene     Benzo(a)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1                                                                                                   | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.2<br>0.2<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                           | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]ANA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)      Parameter     Naphthalene     2-methylnaphthalene     1-methylnaphthalene     Acenaphthylene     Acenaphthylene     Acenaphthene     Fluorene     Phenanthrene     Anthracene     Fluoranthene     Pyrene     Benzo(a)anthracene     Chrysene     Benzo(k)jfluoranthene     Benzo(k)jfluoranthene     Benzo(a)pyrene     Indeno(1,2,3-cd)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.2<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1 | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]ANA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)      Parameter      Naphthalene     2-methylnaphthalene     1-methylnaphthalene     Acenaphthylene     Acenaphthylene     Acenaphthene     Fluorene     Phenanthrene     Anthracene     Fluoranthene     Pyrene     Benzo(a)anthracene     Chrysene     Benzo(b&j)fluoranthene     Benzo(a)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1                                                                                                   | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.2<br>0.2<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                           | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AMA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)<br>d14-p-terphenyl (Surrogate)      Parameter     Naphthalene     2-methylnaphthalene     1-methylnaphthalene     Acenaphthylene     Acenaphthylene     Acenaphthene     Fluorene     Phenanthrene     Anthracene     Fluoranthene     Pyrene     Benzo(a)anthracene     Chrysene     Benzo(k)jfluoranthene     Benzo(k)jfluoranthene     Benzo(a)pyrene     Indeno(1,2,3-cd)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.2<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1 | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>ENVJANA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                        |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(båj)fluoranthene         Benzo(bjluoranthene         Benzo(cla)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.2<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                           | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]ANA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(k)jfluoranthene         Benzo(a)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Benzo(ah)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AN4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Fluoranthene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(k)fluoranthene         Benzo(k)fluoranthene         Benzo(a)pyrene         Indeno(1.2,3-cd)pyrene         Dibenzo(ah)anthracene         Benzo(ah)anthracene         Carcinogenic PAHs, BaP TEQ <lor=0< td=""></lor=0<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENVJANA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(k)fluoranthene         Benzo(a)pyrene         Inden(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Benzo(ah)anthracene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=lor< td=""></lor=lor<></lor=0<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0 [ENVJAN4 RPD % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                        |
| Original                                                     | Duplicate                 |              | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(k)fluoranthene         Benzo(a)quyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=10r< td="">         Carcinogenic PAHs, BaP TEQ <lor=10r< td=""></lor=10r<></lor=10r<></lor=0<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                              | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0 [ENVJAN4 RPD % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                        |
| Original                                                     | Duplicate                 | ons) in Soil | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Fluoranthene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(a)aptrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Benzo(gh)perylene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=lor< td="">         Carcinogenic PAHs, BaP TEQ <lor=lor< td="">         Carcinogenic PAHs, BaP TEQ <lor=lor< td=""></lor=lor<></lor=lor<></lor=lor<></lor=0<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                       | 0.4239250481<br>0.4183620820<br>Duplicate<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                 | 30<br>Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENVJAN/<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Driginal                                                     | Duplicate                 | ons) in Soil | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Fluoranthene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(a)anthracene         Chrysene         Benzo(a)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Benzo(ah)pyrene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=10r< td=""></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=0<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg           mg/kg </td <td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>0.4239250481<br/>0.4183620820<br/>Methy<br/><duplicate<br>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.2<br/>0.2<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</duplicate<br></td> <td>30<br/>Criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>0 [ENVJAN4 RPD % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                       | 0.4239250481<br>0.4183620820<br>Methy<br><duplicate<br>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.2<br/>0.2<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</duplicate<br> | 30<br>Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0 [ENVJAN4 RPD % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                        |
| Original<br>SE208655.010                                     | Duplicate                 | ons) in Soil | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(a)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Berzo(ghi)perylene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=10r< td=""><td>mg/kg           mg/kg           mg/kg<!--</td--><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td><td>0.4239250481<br/>0.4183620820<br/>Metho<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td><td>30<br/>criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>0<br/>[ENV]AMA<br/>RPD %<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=0<> | mg/kg           mg/kg </td <td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>0.4239250481<br/>0.4183620820<br/>Metho<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>30<br/>criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>0<br/>[ENV]AMA<br/>RPD %<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                       | 0.4239250481<br>0.4183620820<br>Metho<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                     | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AMA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original<br>SE208655.010                                     | Duplicate<br>LB204342.014 | ons) in Soil | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(a)aptrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Benzo(ah)anthracene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=lor< td="">         Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td="">         Total PAH (18)         d5-nitrobenzene (Surrogate)         2-fluorobiphenyl (Surrogate)     <td>mg/kg           mg/kg           mg/kg<!--</td--><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td><td>0.4239250481<br/>0.4183620820<br/><b>Duplicate</b><br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td><td>30<br/>Criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>0<br/>[ENV]AMA<br/>RPD %<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></lor=lor></lor=lor<></lor=0<>                                                                                                                                                                                                                                                                                                               | mg/kg           mg/kg </td <td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>0.4239250481<br/>0.4183620820<br/><b>Duplicate</b><br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>30<br/>Criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>0<br/>[ENV]AMA<br/>RPD %<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>                                                                           | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                       | 0.4239250481<br>0.4183620820<br><b>Duplicate</b><br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                          | 30<br>Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>[ENV]AMA<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       |
| Original                                                     | Duplicate<br>LB204342.014 | ons) in Soil | 2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate)         Parameter         Naphthalene         2-methylnaphthalene         1-methylnaphthalene         Acenaphthylene         Acenaphthylene         Acenaphthene         Fluorene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)anthracene         Chrysene         Benzo(a)pyrene         Indeno(1,2,3-cd)pyrene         Dibenzo(ah)anthracene         Berzo(ghi)perylene         Carcinogenic PAHs, BaP TEQ <lor=0< td="">         Carcinogenic PAHs, BaP TEQ <lor=10r< td=""><td>mg/kg           mg/kg           mg/kg<!--</td--><td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td><td>0.4239250481<br/>0.4183620820<br/>Metho<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td><td>30<br/>criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>0<br/>ENVJAN4<br/>RPD %<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=10r<></lor=0<>  | mg/kg           mg/kg </td <td>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>0.4<br/>0.4<br/>0.4<br/>0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>0.4239250481<br/>0.4183620820<br/>Metho<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1<br/>&lt;0.1</td> <td>30<br/>criteria %<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>0<br/>ENVJAN4<br/>RPD %<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>                                                                                       | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.4<br>0.4<br>0.4<br>0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                                       | 0.4239250481<br>0.4183620820<br>Metho<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1<br><0.1                                                                                                                                                                     | 30<br>criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>ENVJAN4<br>RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                        |



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.

| PAH (Polynuclear / | Aromatic Hydrocarbo | ons) in Soll (contin | ied)                                                                                                                                     |       |     |          | Metho        | d: ME-(AU)- | (ENVJAN42 |
|--------------------|---------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|----------|--------------|-------------|-----------|
| Original           | Duplicate           |                      | Parameter                                                                                                                                | Units | LOR | Original | Duplicate    | Criteria %  | RPD %     |
| SE208655.016       | LB204342.021        |                      | 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 | 0.2      | 0.2          | 76          | 14        |
|                    |                     |                      | Pyrene                                                                                                                                   | mg/kg | 0.1 | 0.2      | 0.2          | 69          | 14        |
|                    |                     |                      |                                                                                                                                          |       |     |          |              |             | 0         |
|                    |                     |                      | Benzo(a)anthracene                                                                                                                       | mg/kg | 0.1 | <0.1     | <0.1         | 144         |           |
|                    |                     |                      | Chrysene                                                                                                                                 | mg/kg | 0.1 | <0.1     | 0.1          | 138         | 1         |
|                    |                     |                      | Benzo(b&j)fluoranthene                                                                                                                   | mg/kg | 0.1 | 0.1      | 0.1          | 111         | 1         |
|                    |                     |                      | Benzo(k)fluoranthene                                                                                                                     | mg/kg | 0.1 | <0.1     | <0.1         | 148         | 0         |
|                    |                     |                      | Benzo(a)pyrene                                                                                                                           | mg/kg | 0.1 | 0.1      | 0.1          | 114         | 11        |
|                    |                     |                      | Indeno(1,2,3-cd)pyrene                                                                                                                   | mg/kg | 0.1 | <0.1     | <0.1         | 182         | 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         | 163         | 0         |
|                    |                     |                      | Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>mg/kg</td><td>0.2</td><td>&lt;0.2</td><td>&lt;0.2</td><td>163</td><td>0</td></lor=0<>       | mg/kg | 0.2 | <0.2     | <0.2         | 163         | 0         |
|                    |                     |                      | Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>mg/kg</td><td>0.3</td><td>&lt;0.3</td><td>&lt;0.3</td><td>124</td><td>0</td></lor=lor<>   | mg/kg | 0.3 | <0.3     | <0.3         | 124         | 0         |
|                    |                     |                      | Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>mg/kg</td><td>0.2</td><td>0.2</td><td>&lt;0.2</td><td>112</td><td>4</td></lor=lor>   | mg/kg | 0.2 | 0.2      | <0.2         | 112         | 4         |
|                    |                     |                      | Total PAH (18)                                                                                                                           | mg/kg | 0.8 | 0.8      | <0.8         | 137         | 6         |
|                    |                     | Surrogates           | d5-nitrobenzene (Surrogate)                                                                                                              | mg/kg | -   | 0.4      | 0.4          | 30          | 2         |
|                    |                     | ounogates            |                                                                                                                                          |       | _   | 0.5      | 0.5          | 30          | 9         |
|                    |                     |                      | 2-fluorobiphenyl (Surrogate)                                                                                                             | mg/kg | -   | 0.5      | 0.5          | 30          | 9         |
| C200655 205        | 1 0204242 040       |                      | d14-p-terphenyl (Surrogate)                                                                                                              | mg/kg |     |          |              |             |           |
| E208655.025        | LB204343.019        |                      | Naphthalene                                                                                                                              | mg/kg | 0.1 | <0.1     | 0.0003993674 | 200         | 0         |
|                    |                     |                      | 2-methylnaphthalene                                                                                                                      | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | 1-methylnaphthalene                                                                                                                      | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Acenaphthylene                                                                                                                           | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Acenaphthene                                                                                                                             | mg/kg | 0.1 | <0.1     | 0.0002972413 | 200         | 0         |
|                    |                     |                      | Fluorene                                                                                                                                 | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Phenanthrene                                                                                                                             | mg/kg | 0.1 | <0.1     | 0.0009925037 | 200         | 0         |
|                    |                     |                      | Anthracene                                                                                                                               | mg/kg | 0.1 | <0.1     | 0.0010180153 | 200         | 0         |
|                    |                     |                      | Fluoranthene                                                                                                                             | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Pyrene                                                                                                                                   | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Benzo(a)anthracene                                                                                                                       | mg/kg | 0.1 | <0.1     | 0.0050762202 | 200         | 0         |
|                    |                     |                      | Chrysene                                                                                                                                 | mg/kg | 0.1 | <0.1     | 0.0055733592 | 200         | 0         |
|                    |                     |                      | Benzo(b&j)fluoranthene                                                                                                                   | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Benzo(k)fluoranthene                                                                                                                     | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Benzo(a)pyrene                                                                                                                           | mg/kg | 0.1 | <0.1     | 0.0061769411 | 200         | 0         |
|                    |                     |                      |                                                                                                                                          |       |     |          | 0.0001703411 | 200         | 0         |
|                    |                     |                      | Indeno(1,2,3-cd)pyrene                                                                                                                   | mg/kg | 0.1 | <0.1     |              |             |           |
|                    |                     |                      | Dibenzo(ah)anthracene                                                                                                                    | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Benzo(ghi)perylene                                                                                                                       | mg/kg | 0.1 | <0.1     | 0            | 200         | 0         |
|                    |                     |                      | Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>mg/kg</td><td>0.2</td><td>&lt;0.2</td><td>0</td><td>200</td><td>0</td></lor=0<>             | mg/kg | 0.2 | <0.2     | 0            | 200         | 0         |
|                    |                     |                      | Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>mg/kg</td><td>0.3</td><td>&lt;0.3</td><td>0.242</td><td>134</td><td>0</td></lor=lor<>     | mg/kg | 0.3 | <0.3     | 0.242        | 134         | 0         |
|                    |                     |                      | Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>mg/kg</td><td>0.2</td><td>&lt;0.2</td><td>0.121</td><td>175</td><td>0</td></lor=lor> | mg/kg | 0.2 | <0.2     | 0.121        | 175         | 0         |
|                    |                     |                      | Total PAH (18)                                                                                                                           | mg/kg | 0.8 | <0.8     | 0            | 200         | 0         |
|                    |                     | Surrogates           | d5-nitrobenzene (Surrogate)                                                                                                              | mg/kg | -   | 0.4      | 0.4385358031 | 30          | 2         |
|                    |                     |                      | 2-fluorobiphenyl (Surrogate)                                                                                                             | mg/kg | -   | 0.4      | 0.4239250481 | 30          | 0         |
|                    |                     |                      | d14-p-terphenyl (Surrogate)                                                                                                              | mg/kg | -   | 0.4      | 0.4183620820 | 30          | 0         |
| CBs in Soil        |                     |                      |                                                                                                                                          |       |     |          | Metho        | d: ME-(AU)- |           |
|                    | Duplicate           |                      | Darameter                                                                                                                                |       |     | Original |              | <u> </u>    |           |
| Driginal           |                     |                      | Parameter                                                                                                                                | Units | LOR | Original | Duplicate    |             | RPD %     |
| E208655.010        | LB204342.014        |                      | 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         |
|                    |                     | Surrogataa           |                                                                                                                                          |       | -   | 0        | 0            | 30          | 1         |
|                    | 1 000 40 40 00 1    | Surrogates           | Tetrachloro-m-xylene (TCMX) (Surrogate)                                                                                                  | mg/kg |     |          |              |             |           |
| E208655.016        | LB204342.021        |                      | Arochlor 1016                                                                                                                            | mg/kg | 0.2 | <0.2     | <0.2         | 200         | 0         |
|                    |                     |                      |                                                                                                                                          |       |     |          |              |             |           |



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.

| CBs in Soll (conti       |                           |                                                                                   |                                        |                           |                                     |                                              | od: ME-(AU)-                                           |                                 |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------------------|---------------------------------|
| Original                 | Duplicate                 | Parameter                                                                         | Units                                  | LOR                       | Original                            |                                              | Criteria %                                             | RPD 9                           |
| SE208655.016             | LB204342.021              | Arochlor 1221                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1232                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1242                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1248                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1254                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1260                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1262                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Arochlor 1268                                                                     | mg/kg                                  | 0.2                       | <0.2                                | <0.2                                         | 200                                                    | 0                               |
|                          |                           | Total PCBs (Arochlors)                                                            | mg/kg                                  | 1                         | <1                                  | <1                                           | 200                                                    | 0                               |
|                          |                           | Surrogates Tetrachloro-m-xylene (TCMX) (Surrogate)                                | mg/kg                                  | -                         | 0                                   | 0                                            | 30                                                     | 5                               |
| SE208655.025             | LB204343.019              | Arochlor 1016                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1221                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1232                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1242                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1248                                                                     |                                        | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           |                                                                                   | mg/kg                                  |                           |                                     |                                              |                                                        |                                 |
|                          |                           | Arochlor 1254                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1260                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1262                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Arochlor 1268                                                                     | mg/kg                                  | 0.2                       | <0.2                                | 0                                            | 200                                                    | 0                               |
|                          |                           | Total PCBs (Arochlors)                                                            | mg/kg                                  | 1                         | <1                                  | 0                                            | 200                                                    | 0                               |
|                          |                           | Surrogates Tetrachloro-m-xylene (TCMX) (Surrogate)                                | mg/kg                                  | -                         | 0                                   | 0.168                                        | 30                                                     | 4                               |
| otal Recoverable         | Elements in Soil/Wa       | e Solids/Materials by ICPOES                                                      |                                        |                           |                                     | Method: ME                                   | -(AU)-[ENV]A                                           | N040/A                          |
| Driginal                 | Duplicate                 | Parameter                                                                         | Units                                  | LOR                       | Original                            | Duplicate                                    | Criteria %                                             | RPD                             |
| E208655.010              | LB204380.014              | Arsenic, As                                                                       | mg/kg                                  | 1                         | 4                                   | 4                                            | 58                                                     | 0                               |
|                          |                           | Cadmium, Cd                                                                       | mg/kg                                  | 0.3                       | <0.3                                | <0.3                                         | 200                                                    | 0                               |
|                          |                           | Chromium, Cr                                                                      | mg/kg                                  | 0.5                       | 11                                  | 12                                           | 34                                                     | 6                               |
|                          |                           | Copper, Cu                                                                        | mg/kg                                  | 0.5                       | 22                                  | 20                                           | 32                                                     | 10                              |
|                          |                           | Nickel, Ni                                                                        | mg/kg                                  | 0.5                       | 20                                  | 21                                           | 32                                                     | 8                               |
|                          |                           | Lead, Pb                                                                          | mg/kg                                  | 1                         | 15                                  | 13                                           | 37                                                     | 11                              |
|                          |                           |                                                                                   |                                        | 2                         | 42                                  | 38                                           |                                                        | 10                              |
|                          | 1 000 4000 004            | Zinc, Zn                                                                          | mg/kg                                  |                           |                                     |                                              | 35                                                     |                                 |
| SE208655.019             | LB204380.024              | Arsenic, As                                                                       | mg/kg                                  | 1                         | 4                                   | 4                                            | 55                                                     | 22                              |
|                          |                           | Cadmium, Cd                                                                       | mg/kg                                  | 0.3                       | <0.3                                | <0.3                                         | 200                                                    | 0                               |
|                          |                           | Chromium, Cr                                                                      | mg/kg                                  | 0.5                       | 16                                  | 14                                           | 33                                                     | 10                              |
|                          |                           | Copper, Cu                                                                        | mg/kg                                  | 0.5                       | 22                                  | 37                                           | 32                                                     | 52 (                            |
|                          |                           | Nickel, Ni                                                                        | mg/kg                                  | 0.5                       | 6.8                                 | 12                                           | 35                                                     | 59 🤅                            |
|                          |                           | Lead, Pb                                                                          | mg/kg                                  | 1                         | 15                                  | 11                                           | 38                                                     | 27                              |
|                          |                           | Zinc, Zn                                                                          | mg/kg                                  | 2                         | 36                                  | 54                                           | 34                                                     | 40 @                            |
| SE208655.020             | LB204381.014              | Arsenic, As                                                                       | mg/kg                                  | 1                         | 3                                   | 3                                            | 66                                                     | 4                               |
|                          |                           | Cadmium, Cd                                                                       | mg/kg                                  | 0.3                       | < 0.3                               | <0.3                                         | 200                                                    | 0                               |
|                          |                           | Chromium, Cr                                                                      | mg/kg                                  | 0.5                       | 15                                  | 15                                           | 33                                                     | 2                               |
|                          |                           | Copper, Cu                                                                        | mg/kg                                  | 0.5                       | 24                                  | 22                                           | 32                                                     | 9                               |
|                          |                           | Nickel, Ni                                                                        | mg/kg                                  | 0.5                       | 18                                  | 18                                           | 33                                                     | 3                               |
|                          |                           | Lead, Pb                                                                          | mg/kg                                  | 1                         | 9                                   | 9                                            | 41                                                     | 0                               |
|                          |                           | Zinc, Zn                                                                          | mg/kg                                  | 2                         | 50                                  | 37                                           | 35                                                     | 30                              |
| C 200655 022             | LB204381.024              |                                                                                   |                                        |                           | 6                                   | 6                                            |                                                        | 2                               |
| E208655.032              | LD204301.024              | Arsenic, As                                                                       | mg/kg                                  | 1                         |                                     |                                              | 46                                                     | 2                               |
|                          |                           | Cadmium, Cd                                                                       | mg/kg                                  | 0.3                       | <0.3                                | <0.3                                         | 200                                                    |                                 |
|                          |                           | Chromium, Cr                                                                      | mg/kg                                  | 0.5                       | 7.9                                 | 10                                           | 36                                                     | 24                              |
|                          |                           | Copper, Cu                                                                        | mg/kg                                  | 0.5                       | 8.9                                 | 11                                           | 35                                                     | 19                              |
|                          |                           |                                                                                   | mg/kg                                  | 0.5                       | 0.8                                 | 1.1                                          | 80                                                     | 32                              |
|                          |                           | Nickel, Ni                                                                        |                                        |                           |                                     | 16                                           |                                                        | 10                              |
|                          |                           | Lead, Pb                                                                          | mg/kg                                  | 1                         | 14                                  | 15                                           | 37                                                     |                                 |
|                          |                           |                                                                                   | mg/kg<br>mg/kg                         | 2                         | 7.8                                 | 9.6                                          | 53                                                     | 20                              |
| ace Metals (Diss         | solved) in Water by IC    | Lead, Pb<br>Zinc, Zn                                                              |                                        |                           |                                     | 9.6                                          |                                                        |                                 |
|                          |                           | Lead, Pb<br>Zinc, Zn                                                              | mg/kg                                  | 2                         | 7.8                                 | 9.6<br>Meth                                  | 53<br>od: ME-(AU)-                                     | [ENV]A                          |
| Driginal                 | Duplicate                 | Lead, Pb<br>Zinc, Zn<br>MS<br>Parameter                                           | mg/kg<br>Units                         | 2<br>LOR                  | 7.8<br>Original                     | 9.6<br>Meth<br>Duplicate                     | 53<br>od: ME-(AU)-<br>Criteria %                       | <mark>(ENV]A</mark><br>RPD      |
| Driginal<br>SE208623.001 | Duplicate<br>LB204402.014 | Lead, Pb<br>Zinc, Zn<br>MS<br>Parameter<br>Lead, Pb                               | mg/kg<br>Units<br>µg/L                 | 2<br>LOR<br>1             | 7.8<br>Original<br><1               | 9.6<br>Meth<br>Duplicate<br><1               | 53<br>I <mark>od: ME-(AU)-</mark><br>Criteria %<br>162 | <mark>(ENVJA</mark><br>RPD<br>0 |
| Driginal<br>SE208623.001 | Duplicate                 | Lead, Pb<br>Zinc, Zn<br>MS<br>Parameter<br>Lead, Pb<br>Arsenic, As                | mg/kg<br>Units<br>μg/L<br>μg/L         | 2<br>LOR<br>1<br>1        | 7.8<br>Original<br><1<br><1         | 9.6<br>Meth<br>Duplicate<br><1<br><1         | 53<br>od: ME-(AU)-<br>Criteria %<br>162<br>200         | (ENV)A<br>RPD<br>0<br>0         |
| Driginal                 | Duplicate<br>LB204402.014 | Lead, Pb<br>Zinc, Zn<br>MS<br>Parameter<br>Lead, Pb<br>Arsenic, As<br>Cadmium, Cd | mg/kg<br>Units<br>μg/L<br>μg/L<br>μg/L | 2<br>LOR<br>1<br>1<br>0.1 | 7.8<br>Original<br><1<br><1<br><0.1 | 9.6<br>Meth<br>Duplicate<br><1<br><1<br><0.1 | 53<br>od: ME-(AU)-<br>Criteria %<br>162<br>200<br>200  | <b>RPD</b><br>0<br>0<br>0       |
| Driginal<br>SE208623.001 | Duplicate<br>LB204402.014 | Lead, Pb<br>Zinc, Zn<br>MS<br>Parameter<br>Lead, Pb<br>Arsenic, As                | mg/kg<br>Units<br>μg/L<br>μg/L         | 2<br>LOR<br>1<br>1        | 7.8<br>Original<br><1<br><1         | 9.6<br>Meth<br>Duplicate<br><1<br><1         | 53<br>od: ME-(AU)-<br>Criteria %<br>162<br>200         | [ENV]AI<br>RPD<br>0<br>0        |



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.

|                                          | erable Hydrocarbons       |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                              |                                                                                                                                                   |                           | od: ME-(AU)-                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original                                 | Duplicate                 |                                                                                                              | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOR                                                                                                                                                                                                          | Original                                                                                                                                          | Duplicate                 | Criteria %                                                                                | RPD %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SE208655.010                             | LB204342.014              |                                                                                                              | TRH C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20                                                                                                                                                                                                           | <20                                                                                                                                               | <20                       | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45                                                                                                                                                                                                           | <45                                                                                                                                               | 58                        | 126                                                                                       | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                          |                           |                                                                                                              | TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45                                                                                                                                                                                                           | 70                                                                                                                                                | 100                       | 82                                                                                        | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                          |                           |                                                                                                              | TRH C37-C40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100                                                                                                                                                                                                          | <100                                                                                                                                              | <100                      | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C10-C36 Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 110                                                                                                                                                                                                          | <110                                                                                                                                              | 160                       | 125                                                                                       | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                          |                           |                                                                                                              | 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                                                                                                                                               | 120                       | 117                                                                                       | 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                          |                           |                                                                                                              | TRH >C34-C40 (F4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120                                                                                                                                                                                                          | <120                                                                                                                                              | <120                      | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SE208655.016                             | LB204342.021              |                                                                                                              | TRH C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20                                                                                                                                                                                                           | <20                                                                                                                                               | <20                       | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SE200035.010                             | LD204042.021              |                                                                                                              | TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45                                                                                                                                                                                                           | <45                                                                                                                                               | <45                       | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                              |                                                                                                                                                   | <45                       | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45                                                                                                                                                                                                           | <45                                                                                                                                               |                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                          |                           |                                                                                                              | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SE208655.025                             | LB204343.019              |                                                                                                              | TRH C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20                                                                                                                                                                                                           | <20                                                                                                                                               | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45                                                                                                                                                                                                           | <45                                                                                                                                               | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45                                                                                                                                                                                                           | <45                                                                                                                                               | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C37-C40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100                                                                                                                                                                                                          | <100                                                                                                                                              | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH C10-C36 Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 110                                                                                                                                                                                                          | <110                                                                                                                                              | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH >C10-C40 Total (F bands)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 210                                                                                                                                                                                                          | <210                                                                                                                                              | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           | TRH F Bands                                                                                                  | TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25                                                                                                                                                                                                           | <25                                                                                                                                               | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH >C10-C16 - Naphthalene (F2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25                                                                                                                                                                                                           | <25                                                                                                                                               | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH >C16-C34 (F3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 90                                                                                                                                                                                                           | <90                                                                                                                                               | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              | TRH >C34-C40 (F4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120                                                                                                                                                                                                          | <120                                                                                                                                              | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                          |                           |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | iiig/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120                                                                                                                                                                                                          | \$120                                                                                                                                             | 0                         | 200                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| /OC's in Soil                            |                           |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                              |                                                                                                                                                   | B. 4 - 41-                | - J. BATT CALLS                                                                           | TELL IN CLAIM 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                          |                           |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                              |                                                                                                                                                   |                           | od: ME-(AU)-                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Original                                 | Duplicate                 | Managaria                                                                                                    | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOR                                                                                                                                                                                                          | Original                                                                                                                                          | Duplicate                 | Criteria %                                                                                | RPD %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Original<br>SE208655.010                 | Duplicate<br>LB204339.014 | Monocyclic                                                                                                   | Benzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.1                                                                                                                                                                                                          | <0.1                                                                                                                                              | Duplicate<br><0.1         | Criteria %<br>200                                                                         | RPD %<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Original                                 | •                         | Monocyclic<br>Aromatic                                                                                       | Benzene<br>Toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.1<br>0.1                                                                                                                                                                                                   | <0.1<br><0.1                                                                                                                                      | Duplicate<br><0.1<br><0.1 | Criteria %<br>200<br>200                                                                  | RPD %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Original                                 | •                         |                                                                                                              | Benzene<br>Toluene<br>Ethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1<br>0.1<br>0.1                                                                                                                                                                                            | <0.1<br><0.1<br><0.1                                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200                                                           | <b>RPD %</b><br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Original                                 | •                         |                                                                                                              | Benzene<br>Toluene<br>Ethylbenzene<br>m/p-xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1<br>0.1<br>0.1<br>0.2                                                                                                                                                                                     | <0.1<br><0.1<br><0.1<br><0.2                                                                                                                      | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200                                                    | RPD %<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Original                                 | •                         | Aromatic                                                                                                     | Benzene<br>Toluene<br>Ethylbenzene<br>m/p-xylene<br>o-xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.1<br>0.1<br>0.1<br>0.2<br>0.1                                                                                                                                                                              | <0.1<br><0.1<br><0.1<br><0.2<br><0.1                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200                                             | RPD %<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Original                                 | •                         |                                                                                                              | Benzene<br>Toluene<br>Ethylbenzene<br>m/p-xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1<br>0.1<br>0.1<br>0.2                                                                                                                                                                                     | <0.1<br><0.1<br><0.1<br><0.2                                                                                                                      | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200                                                    | RPD %<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Original                                 | •                         | Aromatic                                                                                                     | Benzene<br>Toluene<br>Ethylbenzene<br>m/p-xylene<br>o-xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.1<br>0.1<br>0.1<br>0.2<br>0.1                                                                                                                                                                              | <0.1<br><0.1<br><0.1<br><0.2<br><0.1                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200                                             | RPD %<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Original                                 | •                         | Aromatic<br>Polycyclic                                                                                       | Benzene<br>Toluene<br>Ethylbenzene<br>m/p-xylene<br>o-xylene<br>Naphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1                                                                                                                                                                       | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br><0.1                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200                               | RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Original                                 | •                         | Aromatic<br>Polycyclic                                                                                       | Benzene<br>Toluene<br>Ethylbenzene<br>m/p-xylene<br>o-xylene<br>Naphthalene<br>d4-1,2-dichloroethane (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-                                                                                                                                                                         | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br><0.1<br>8.2                                                                                       | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>50                                | RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Original                                 | •                         | Aromatic<br>Polycyclic                                                                                       | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-                                                                                                                                                                         | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8                                                                                        | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>50<br>50                   | RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Original                                 | •                         | Aromatic<br>Polycyclic<br>Surrogates                                                                         | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-                                                                                                                                                                    | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9                                                                                 | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50             | RPD %<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>2<br>2<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Original<br>SE208655.010                 | •                         | Aromatic Polycyclic Surrogates Totals                                                                        | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         data         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>0.3<br>0.6                                                                                                                                            | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9<br><0.3<br><0.6                                                         | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>20 | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                         |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic                                                             | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>0.3<br>0.6<br>0.1                                                                                                                                               | <0.1<br><0.1<br><0.2<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9<br><0.3<br><0.6<br><0.1                                                 | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                             |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals                                                                        | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                                                                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1                                                                                                                                   | <0.1<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9<br><0.3<br><0.6<br><0.1<br><0.1                                                         | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                             |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic                                                             | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg                                                                                                                                                                                                                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1                                                                                                                                        | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9<br><0.3<br><0.6<br><0.1<br><0.1<br><0.1                                         | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>200<br>20       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                     |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic                                                             | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mg/kg                                                                                                                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.2                                                                                                                          | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9<br><0.3<br><0.6<br><0.1<br><0.1<br><0.1<br><0.1<br><0.2                         | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                     |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic Aromatic                                                    | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg                                                                                                                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.1                                                                                                       | <0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.1<br>8.2<br>7.8<br>6.9<br><0.3<br><0.6<br><0.1<br><0.1<br><0.1<br><0.1<br><0.2<br><0.1<br><0.2<br><0.1 | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200       | RPD         9           0         0           0         0           0         0           0         0           2         2           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0                                                                                                                                                                                                                                                             |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic Aromatic Polycyclic                                         | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                         | mg/kg                                                                                                                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                                                                                  | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200<br>200       | RPD         %           0         0           0         0           0         0           0         0           0         0           2         2           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0                                                                                                                                                                                                                                       |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic Aromatic                                                    | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                               | mg/kg                                                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                                                                           | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200<br>200       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                         |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic Aromatic Polycyclic                                         | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1<br>-<br>-                                                                               | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>50<br>50<br>50<br>50<br>200<br>200<br>200       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                     |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Monocyclic Aromatic Polycyclic Surrogates                                     | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bertone (Surrogate)                                                                                                                                                                                                                     | mg/kg                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 50 50 50 200 200 200 20                                        | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 |
| Original<br>SE208655.010                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Monocyclic Aromatic Polycyclic                                         | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         data         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Boxylene         Sylene         Toluene (Surrogate)         d8-toluene (Surrogate)         d8-toluene (Surrogate)         d8-toluene (Surrogate)                                                                                                                     | mg/kg                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                               | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 200 50 50 50 200 200 20                                        | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                             |
| Original<br>SE208655.010<br>SE208655.016 | LB204339.014              | Aromatic Polycyclic Surrogates Monocyclic Aromatic Polycyclic Surrogates                                     | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bertone (Surrogate)                                                                                                                                                                                                                     | mg/kg                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 50 50 50 200 200 200 20                                        | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                             |
| Original<br>SE208655.010<br>SE208655.016 | LB204339.014              | Aromatic Polycyclic Surrogates Monocyclic Aromatic Polycyclic Surrogates                                     | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         data         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Boxylene         Sylene         Toluene (Surrogate)         d8-toluene (Surrogate)         d8-toluene (Surrogate)         d8-toluene (Surrogate)                                                                                                                     | mg/kg                                                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                               | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 50 50 50 200 200 200 20                                        | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                         |
| Original<br>SE208655.010<br>SE208655.016 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Polycyclic Aromatic Polycyclic Surrogates Totals                       | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         d4-1,2-dichloroethane (Surrogate)         Bhathtalene         d4-1,2-dichloroethane (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total STEX                                                                                                                                 | mg/kg                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                                                      | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 50 50 50 200 200 200 20                                        | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                     |
| Original                                 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Polycyclic Aromatic Polycyclic Surrogates Totals Monocyclic Monocyclic | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total BTEX         Benzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         Total BTEX         Benzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d4-1,2-dichloroethane (Surrogate)         Bromofluorobenzene (Surrogate)         Bromofluorobenzene (Surrogate)         Total Xylenes         Total Sylenes         Total BTEX         Benzene                                                                                                                       | mg/kg                                                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                                                                           | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 200 200 200 200 200 20                                         | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                     |
| Original<br>SE208655.010<br>SE208655.016 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Polycyclic Aromatic Polycyclic Surrogates Totals Monocyclic Monocyclic | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         Bromofluorobenzene (Surrogate)         Total BTEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Maphthalene         data         Benzene         Total BTEX         Benzene         Mp-xylene         o-xylene         o-xylene         o-xylene         Stationoethane (Surrogate)         Berzene         Total BTEX         Benzene         Total Xylenes         Total Xylenes         Total Xylenes         Total Steps         Benzene         Total BTEX         Benzene         Total BTEX         Benzene         Total BTEX         Benzene         Total PTEX         Benzene         Toluene | mg/kg                                                 | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1                                                            | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria %<br>200<br>200<br>200<br>200<br>200<br>50<br>50<br>200<br>200<br>200<br>2       | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                     |
| Original<br>SE208655.010<br>SE208655.016 | LB204339.014              | Aromatic Polycyclic Surrogates Totals Polycyclic Aromatic Polycyclic Surrogates Totals Monocyclic Monocyclic | Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Naphthalene         d4-1,2-dichloroethane (Surrogate)         d8-toluene (Surrogate)         Bromofluorobenzene (Surrogate)         Total STEX         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         O-xylene         Benzene         Toluene         Ethylbenzene         m/p-xylene         o-xylene         Sylene         Bonthhalene         d4-1,2-dichloroethane (Surrogate)         Bromofluorobenzene (Surrogate)         Bromofluorobenzene (Surrogate)         Total BTEX         Benzene         Total BTEX         Benzene         Total BTEX         Benzene         Total BTEX         Benzene         Toluene         Ethylbenzene         Ethylbenzene        | mg/kg           mg/kg | 0.1<br>0.1<br>0.2<br>0.1<br>0.1<br>-<br>-<br>-<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.3<br>0.6<br>0.1<br>0.1<br>0.1<br>0.1                                                                    | <0.1                                                                                                                                              | Duplicate           <0.1  | Criteria % 200 200 200 200 200 50 50 200 200 200 2                                        | RPD %           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                     |



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.

| <b>/OC's in Soil (con</b><br>Original | Duplicate          |             | Parameter                                       | Units          | LOR | Original |              | od: ME-(AU)·<br>Criteria % | RPD %   |
|---------------------------------------|--------------------|-------------|-------------------------------------------------|----------------|-----|----------|--------------|----------------------------|---------|
| SE208655.026                          | LB204340.014       | Sumaratas   | d4-1,2-dichloroethane (Surrogate)               |                |     |          |              | 50                         | 2       |
| E200055.020                           | LB204340.014       | Surrogates  |                                                 | mg/kg          |     | 8.4      | 8.6          | 50                         | 2       |
|                                       |                    |             | d8-toluene (Surrogate)                          | mg/kg          |     | 6.6      | 6.9          | 50                         | 4       |
|                                       |                    | Totals      | Bromofluorobenzene (Surrogate)<br>Total Xylenes | mg/kg          | 0.3 | <0.3     | <0.3         | 200                        | 4       |
|                                       |                    | Totals      | Total BTEX                                      | mg/kg<br>mg/kg | 0.6 | <0.3     | <0.6         | 200                        | 0       |
|                                       |                    |             | TOTALDIEA                                       | iiig/kg        | 0.0 | <0.0     |              |                            |         |
| OCs in Water                          |                    |             |                                                 |                |     |          |              | d: ME-(AU)                 |         |
| Driginal                              | Duplicate          |             | Parameter                                       | Units          | LOR | Original |              | Criteria %                 |         |
| SE208655.028                          | LB204439.021       | Monocyclic  | Benzene                                         | μg/L           | 0.5 | <0.5     | 0.0382640612 | 200                        | 0       |
|                                       |                    | Aromatic    | Toluene                                         | μg/L           | 0.5 | <0.5     | 0.0979003260 | 200                        | 0       |
|                                       |                    |             | Ethylbenzene                                    | μg/L           | 0.5 | <0.5     | 0.0263561294 | 200                        | 0       |
|                                       |                    |             | m/p-xylene                                      | μg/L           | 1   | <1       | 0.0831745044 | 200                        | 0       |
|                                       |                    |             | o-xylene                                        | µg/L           | 0.5 | <0.5     | 0.0229546623 | 200                        | 0       |
|                                       |                    | Polycyclic  | Naphthalene                                     | µg/L           | 0.5 | <0.5     | 0.0149147828 | 200                        | 0       |
|                                       |                    | Surrogates  | d4-1,2-dichloroethane (Surrogate)               | μg/L           | -   | 11.0     | 9.2838098028 | 30                         | 17      |
|                                       |                    |             | d8-toluene (Surrogate)                          | μg/L           | -   | 9.6      | 9.8057867667 | 30                         | 2       |
|                                       |                    |             | Bromofluorobenzene (Surrogate)                  | μg/L           | -   | 9.8      | 9.6692785559 | 30                         | 1       |
| olatile Petroleum                     | Hydrocarbons in So | il          |                                                 |                |     |          | Metho        | d: ME-(AU)                 | (ENVJAI |
| Original                              | Duplicate          |             | Parameter                                       | Units          | LOR | Original | Duplicate    | Criteria %                 | RPD     |
| SE208655.010                          | LB204339.014       |             | 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          |     | 8.2      | 8.2          | 30                         | 0       |
|                                       |                    | Gunogates   | d8-toluene (Surrogate)                          | mg/kg          |     | 7.8      | 7.9          | 30                         | 2       |
|                                       |                    |             | Bromofluorobenzene (Surrogate)                  |                |     | 6.9      | 7.0          | 30                         | 2       |
|                                       |                    | VDU E Bende |                                                 | mg/kg          |     |          |              |                            |         |
|                                       |                    | 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       |
| SE208655.016                          | LB204339.021       |             | 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      | 8.1          | 30                         | 0       |
|                                       |                    |             | d8-toluene (Surrogate)                          | mg/kg          | -   | 7.7      | 7.8          | 30                         | 2       |
|                                       |                    |             | Bromofluorobenzene (Surrogate)                  | mg/kg          | -   | 6.8      | 7.0          | 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       |
| SE208655.026                          | LB204340.014       |             | 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          | -   | 8.4      | 8.6          | 30                         | 2       |
|                                       |                    |             | d8-toluene (Surrogate)                          | mg/kg          | -   | 8.1      | 8.3          | 30                         | 2       |
|                                       |                    |             | Bromofluorobenzene (Surrogate)                  | mg/kg          | -   | 6.6      | 6.9          | 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       |
| olatile Petroleum                     | Hydrocarbons in Wa | ater        |                                                 |                |     |          | Metho        | d: ME-(AU)                 | (ENV)A  |
| Original                              | Duplicate          |             | Parameter                                       | Units          | LOR | Original | Duplicate    |                            |         |
| SE208655.028                          | LB204439.021       |             | TRH C6-C10                                      | μg/L           | 50  | <50      | 0.7730206168 | 200                        | 0       |
|                                       |                    |             | TRH C6-C9                                       | μg/L           | 40  | <40      | 0.3352740386 | 200                        | 0       |
|                                       |                    | Surrogates  | d4-1,2-dichloroethane (Surrogate)               | μg/L           | -   | 11.0     | 9.2838098028 | 30                         | 17      |
|                                       |                    | <b>3</b>    | d8-toluene (Surrogate)                          | μg/L           | -   | 9.6      | 9.8057867667 | 30                         | 2       |
|                                       |                    |             | Bromofluorobenzene (Surrogate)                  | μg/L           |     | 9.8      | 9.6692785559 | 30                         | 1       |
|                                       |                    | VPH F Bands | Benzene (F0)                                    | μg/L           | 0.5 | <0.5     | 0.0382640612 | 200                        | 0       |
|                                       |                    |             | TRH C6-C10 minus BTEX (F1)                      | μg/L           | 50  | <50      | 0.7730206168 | 200                        | 0       |
| SE208690.001                          | LB204439.022       | Surrogates  | d4-1,2-dichloroethane (Surrogate)               |                | 50  | 0.0      | 0.7730206166 | 30                         | 12      |
| JE200030.001                          | LD207733.022       | ounogates   |                                                 | μg/L           |     |          |              |                            | 0       |
|                                       |                    |             | d8-toluene (Surrogate)                          | μg/L           |     | 0.0      | 0.0          | 30                         |         |
|                                       |                    |             | Bromofluorobenzene (Surrogate)                  | μg/L           | -   | 0.0      | 0.0          | 30                         | 1       |
|                                       |                    | VPH F Bands | Benzene (F0)                                    | µg/L           | 0.5 | <0.5     | <0.5         | 200                        | 0       |
|                                       |                    |             |                                                 |                |     |          |              |                            |         |



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 Soll Method: ME-(AU)-[ENV]Al |           |       |      |        |          |            | U)-[ENV]AN312 |
|-----------------------------------------|-----------|-------|------|--------|----------|------------|---------------|
| Sample Number                           | Parameter | Units | LOR  | Result | Expected | Criteria % | Recovery %    |
| LB204384.002                            | Mercury   | mg/kg | 0.05 | 0.23   | 0.2      | 70 - 130   | 116           |
| LB204386.002                            | Mercury   | mg/kg | 0.05 | 0.23   | 0.2      | 70 - 130   | 114           |

| C Pesticides in S |            |                                         |         |     |        |          | Nethod: ME-(Al | <u> </u>   |
|-------------------|------------|-----------------------------------------|---------|-----|--------|----------|----------------|------------|
| Sample Number     | r          | Parameter                               | Units   | LOR | Result | Expected | Criteria %     | Recovery   |
| B204342.002       |            | Heptachlor                              | mg/kg   | 0.1 | 0.2    | 0.2      | 60 - 140       | 88         |
|                   |            | Aldrin                                  | mg/kg   | 0.1 | 0.2    | 0.2      | 60 - 140       | 86         |
|                   |            | Delta BHC                               | mg/kg   | 0.1 | 0.2    | 0.2      | 60 - 140       | 83         |
|                   |            | Dieldrin                                | mg/kg   | 0.2 | <0.2   | 0.2      | 60 - 140       | 85         |
|                   |            | Endrin                                  | mg/kg   | 0.2 | <0.2   | 0.2      | 60 - 140       | 86         |
|                   |            | p,p'-DDT                                | mg/kg   | 0.1 | 0.1    | 0.2      | 60 - 140       | 72         |
|                   | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg   | -   | 0.14   | 0.15     | 40 - 130       | 91         |
| B204343.002       |            | Heptachlor                              | mg/kg   | 0.1 | 0.2    | 0.2      | 60 - 140       | 89         |
|                   |            | Aldrin                                  | mg/kg   | 0.1 | 0.2    | 0.2      | 60 - 140       | 90         |
|                   |            | Delta BHC                               | mg/kg   | 0.1 | 0.2    | 0.2      | 60 - 140       | 87         |
|                   |            | Dieldrin                                | mg/kg   | 0.2 | <0.2   | 0.2      | 60 - 140       | 90         |
|                   |            | Endrin                                  | mg/kg   | 0.2 | <0.2   | 0.2      | 60 - 140       | 85         |
|                   |            | p,p'-DDT                                | mg/kg   | 0.1 | 0.1    | 0.2      | 60 - 140       | 74         |
|                   | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg   | -   | 0.14   | 0.15     | 40 - 130       | 93         |
| P Pesticides in S | Soil       |                                         |         |     |        | N        | lethod: ME-(A  | U)-[ENV]AN |
| Sample Number     | r          | Parameter                               | Units   | LOR | Result | Expected | Criteria %     | Recovery   |
| B204342.002       |            | Dichlorvos                              | mg/kg   | 0.5 | 1.8    | 2        | 60 - 140       | 91         |
|                   |            | Diazinon (Dimpylate)                    | mg/kg   | 0.5 | 1.7    | 2        | 60 - 140       | 84         |
|                   |            | Chlorpyrifos (Chlorpyrifos Ethyl)       | mg/kg   | 0.2 | 1.7    | 2        | 60 - 140       | 87         |
|                   |            | Ethion                                  | mg/kg   | 0.2 | 1.3    | 2        | 60 - 140       | 66         |
|                   | Surrogates | 2-fluorobiphenyl (Surrogate)            | mg/kg   | -   | 0.4    | 0.5      | 40 - 130       | 86         |
|                   |            | d14-p-terphenyl (Surrogate)             | mg/kg   | -   | 0.4    | 0.5      | 40 - 130       | 79         |
| B204343.002       |            | Dichlorvos                              | mg/kg   | 0.5 | 1.8    | 2        | 60 - 140       | 89         |
|                   |            | Diazinon (Dimpylate)                    | mg/kg   | 0.5 | 1.3    | 2        | 60 - 140       | 64         |
|                   |            | Chlorpyrifos (Chlorpyrifos Ethyl)       | mg/kg   | 0.2 | 1.4    | 2        | 60 - 140       | 69         |
|                   |            | Ethion                                  | mg/kg   | 0.2 | 1.3    | 2        | 60 - 140       | 63         |
|                   |            |                                         | mg/kg   | _   | 0.4    | 0.5      | 40 - 130       | 82         |
|                   | Surrogates | 2-fluorobiphenyl (Surrogate)            | iiig/kg |     |        | 0.0      | 40 100         | 02         |

| Sample Number |            | Parameter                    | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|------------|------------------------------|-------|-----|--------|----------|------------|------------|
| LB204342.002  |            | Naphthalene                  | mg/kg | 0.1 | 4.2    | 4        | 60 - 140   | 104        |
|               |            | Acenaphthylene               | mg/kg | 0.1 | 4.3    | 4        | 60 - 140   | 107        |
|               |            | Acenaphthene                 | mg/kg | 0.1 | 4.1    | 4        | 60 - 140   | 103        |
|               |            | Phenanthrene                 | mg/kg | 0.1 | 4.0    | 4        | 60 - 140   | 100        |
|               |            | Anthracene                   | mg/kg | 0.1 | 4.3    | 4        | 60 - 140   | 107        |
|               |            | Fluoranthene                 | mg/kg | 0.1 | 4.0    | 4        | 60 - 140   | 100        |
|               |            | Pyrene                       | mg/kg | 0.1 | 4.3    | 4        | 60 - 140   | 108        |
| _             |            | Benzo(a)pyrene               | mg/kg | 0.1 | 4.0    | 4        | 60 - 140   | 100        |
| S             | Surrogates | d5-nitrobenzene (Surrogate)  | mg/kg | -   | 0.4    | 0.5      | 40 - 130   | 90         |
|               |            | 2-fluorobiphenyl (Surrogate) | mg/kg | -   | 0.4    | 0.5      | 40 - 130   | 86         |
|               |            | d14-p-terphenyl (Surrogate)  | mg/kg | -   | 0.4    | 0.5      | 40 - 130   | 79         |
| LB204343.002  |            | Naphthalene                  | mg/kg | 0.1 | 4.1    | 4        | 60 - 140   | 102        |
|               |            | Acenaphthylene               | mg/kg | 0.1 | 4.0    | 4        | 60 - 140   | 99         |
|               |            | Acenaphthene                 | mg/kg | 0.1 | 4.2    | 4        | 60 - 140   | 105        |
|               |            | Phenanthrene                 | mg/kg | 0.1 | 4.1    | 4        | 60 - 140   | 102        |
|               |            | Anthracene                   | mg/kg | 0.1 | 3.9    | 4        | 60 - 140   | 98         |
|               |            | Fluoranthene                 | mg/kg | 0.1 | 3.9    | 4        | 60 - 140   | 97         |
|               |            | Pyrene                       | mg/kg | 0.1 | 4.0    | 4        | 60 - 140   | 101        |
| _             |            | Benzo(a)pyrene               | mg/kg | 0.1 | 4.2    | 4        | 60 - 140   | 106        |
| S             | Surrogates | d5-nitrobenzene (Surrogate)  | mg/kg | -   | 0.4    | 0.5      | 40 - 130   | 75         |
|               |            | 2-fluorobiphenyl (Surrogate) | mg/kg | -   | 0.4    | 0.5      | 40 - 130   | 82         |
|               |            | d14-p-terphenyl (Surrogate)  | mg/kg | -   | 0.4    | 0.5      | 40 - 130   | 74         |

PCBs in Soil

Sample Number

Parameter

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



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.

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

| PCBs in Soil (continued) |               |       |     |        | N        | lethod: ME-(A | U)-[ENV]AN420 |
|--------------------------|---------------|-------|-----|--------|----------|---------------|---------------|
| Sample Number            | Parameter     | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB204342.002             | Arochlor 1260 | mg/kg | 0.2 | 0.3    | 0.4      | 60 - 140      | 77            |
| LB204343.002             | Arochlor 1260 | ma/ka | 0.2 | 0.3    | 0.4      | 60 - 140      | 73            |

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

| Sample Number                                                                                       |                    | Paramotor                                                                                                                                                                                                                                   | Units                                                                   | s LOR                                                            | Result                                                                           |                                                                                  | ME-(AU)-[EN\                                                                                                                                                                  | -                                                                                               |
|-----------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                                     |                    | Parameter                                                                                                                                                                                                                                   |                                                                         |                                                                  |                                                                                  | Expected                                                                         |                                                                                                                                                                               | Recovery                                                                                        |
| LB204380.002                                                                                        |                    | Arsenic, As                                                                                                                                                                                                                                 | mg/kg                                                                   | 1                                                                | 330                                                                              | 318.22                                                                           | 80 - 120                                                                                                                                                                      | 105                                                                                             |
|                                                                                                     |                    | Cadmium, Cd                                                                                                                                                                                                                                 | mg/kg                                                                   | 0.3                                                              | 5.5                                                                              | 5.41                                                                             | 80 - 120                                                                                                                                                                      | 102                                                                                             |
|                                                                                                     |                    | Chromium, Cr                                                                                                                                                                                                                                | mg/kg                                                                   | 0.5                                                              | 43                                                                               | 38.31                                                                            | 80 - 120                                                                                                                                                                      | 111                                                                                             |
|                                                                                                     |                    | Copper, Cu                                                                                                                                                                                                                                  | mg/kg                                                                   | 0.5                                                              | 300                                                                              | 290                                                                              | 80 - 120                                                                                                                                                                      | 103                                                                                             |
|                                                                                                     |                    | Nickel, Ni                                                                                                                                                                                                                                  | mg/kg                                                                   | 0.5                                                              | 190                                                                              | 187                                                                              | 80 - 120                                                                                                                                                                      | 103                                                                                             |
|                                                                                                     |                    | Lead, Pb                                                                                                                                                                                                                                    | mg/kg                                                                   | 1                                                                | 93                                                                               | 89.9                                                                             | 80 - 120                                                                                                                                                                      | 103                                                                                             |
| 5004004 000                                                                                         |                    | Zinc, Zn                                                                                                                                                                                                                                    | mg/kg                                                                   | 2                                                                | 270                                                                              | 273                                                                              | 80 - 120                                                                                                                                                                      | 100                                                                                             |
| _B204381.002                                                                                        |                    | Arsenic, As                                                                                                                                                                                                                                 | mg/kg                                                                   | 1                                                                | 330                                                                              | 318.22                                                                           | 80 - 120                                                                                                                                                                      | 105                                                                                             |
|                                                                                                     |                    | Cadmium, Cd                                                                                                                                                                                                                                 | mg/kg                                                                   | 0.3                                                              | 5.6                                                                              | 5.41                                                                             | 80 - 120                                                                                                                                                                      | 104                                                                                             |
|                                                                                                     |                    | Chromium, Cr                                                                                                                                                                                                                                | mg/kg                                                                   | 0.5                                                              | 40                                                                               | 38.31                                                                            | 80 - 120                                                                                                                                                                      | 104                                                                                             |
|                                                                                                     |                    | Copper, Cu                                                                                                                                                                                                                                  | mg/kg                                                                   | 0.5                                                              | 300                                                                              | 290                                                                              | 80 - 120                                                                                                                                                                      | 105                                                                                             |
|                                                                                                     |                    | Nickel, Ni                                                                                                                                                                                                                                  | mg/kg                                                                   | 0.5                                                              | 190                                                                              | 187                                                                              | 80 - 120                                                                                                                                                                      | 103                                                                                             |
|                                                                                                     |                    | Lead, Pb                                                                                                                                                                                                                                    | mg/kg                                                                   | 1                                                                | 93                                                                               | 89.9                                                                             | 80 - 120                                                                                                                                                                      | 104                                                                                             |
|                                                                                                     |                    | Zinc, Zn                                                                                                                                                                                                                                    | mg/kg                                                                   | 2                                                                | 280                                                                              | 273                                                                              | 80 - 120                                                                                                                                                                      | 102                                                                                             |
| race Metals (Diss                                                                                   | olved) in Water by | ICPMS                                                                                                                                                                                                                                       |                                                                         |                                                                  |                                                                                  | N                                                                                | lethod: ME-(A                                                                                                                                                                 | U)-[ENV]AN                                                                                      |
| Sample Number                                                                                       |                    | Parameter                                                                                                                                                                                                                                   | Units                                                                   | s LOR                                                            | Result                                                                           | Expected                                                                         | Criteria %                                                                                                                                                                    | Recovery                                                                                        |
| B204402.002                                                                                         |                    | Arsenic, As                                                                                                                                                                                                                                 | μg/L                                                                    | 1                                                                | 19                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 94                                                                                              |
|                                                                                                     |                    | Cadmium, Cd                                                                                                                                                                                                                                 | μg/L                                                                    | 0.1                                                              | 21                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 103                                                                                             |
|                                                                                                     |                    | Chromium, Cr                                                                                                                                                                                                                                | μg/L                                                                    | 1                                                                | 22                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 108                                                                                             |
|                                                                                                     |                    | Copper, Cu                                                                                                                                                                                                                                  | μg/L                                                                    | 1                                                                | 22                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 110                                                                                             |
|                                                                                                     |                    | Lead, Pb                                                                                                                                                                                                                                    | μg/L                                                                    | 1                                                                | 20                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 101                                                                                             |
|                                                                                                     |                    | Nickel, Ni                                                                                                                                                                                                                                  | μg/L                                                                    | 1                                                                | 21                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 104                                                                                             |
|                                                                                                     |                    | Zinc, Zn                                                                                                                                                                                                                                    | μg/L                                                                    | 5                                                                | 22                                                                               | 20                                                                               | 80 - 120                                                                                                                                                                      | 109                                                                                             |
| DH (Total Bassur                                                                                    | erable Hydrocarbo  |                                                                                                                                                                                                                                             |                                                                         |                                                                  |                                                                                  |                                                                                  | /lethod: ME-(A                                                                                                                                                                |                                                                                                 |
| -                                                                                                   |                    |                                                                                                                                                                                                                                             |                                                                         | 1.00                                                             | D 11                                                                             |                                                                                  |                                                                                                                                                                               |                                                                                                 |
| Sample Number                                                                                       |                    | Parameter                                                                                                                                                                                                                                   | Units                                                                   |                                                                  | Result                                                                           | Expected                                                                         |                                                                                                                                                                               | Recovery                                                                                        |
| B204342.002                                                                                         |                    | TRH C10-C14                                                                                                                                                                                                                                 | mg/kg                                                                   | 20                                                               | 37                                                                               | 40                                                                               | 60 - 140                                                                                                                                                                      | 93                                                                                              |
|                                                                                                     |                    | TRH C15-C28                                                                                                                                                                                                                                 | mg/kg                                                                   | 45                                                               | <45                                                                              | 40                                                                               | 60 - 140                                                                                                                                                                      | 78                                                                                              |
|                                                                                                     |                    | TRH C29-C36                                                                                                                                                                                                                                 | mg/kg                                                                   | 45                                                               | <45                                                                              | 40                                                                               | 60 - 140                                                                                                                                                                      | 85                                                                                              |
|                                                                                                     | TRH F Bands        | TRH >C10-C16                                                                                                                                                                                                                                | mg/kg                                                                   | 25                                                               | 36                                                                               | 40                                                                               | 60 - 140                                                                                                                                                                      | 90                                                                                              |
|                                                                                                     |                    | TRH >C16-C34 (F3)                                                                                                                                                                                                                           | mg/kg                                                                   | 90                                                               | <90                                                                              | 40                                                                               | 60 - 140                                                                                                                                                                      | 78                                                                                              |
|                                                                                                     |                    | TRH >C34-C40 (F4)                                                                                                                                                                                                                           | mg/kg                                                                   | 120                                                              | <120                                                                             | 20                                                                               | 60 - 140                                                                                                                                                                      | 85                                                                                              |
| B204343.002                                                                                         |                    | TRH C10-C14                                                                                                                                                                                                                                 | mg/kg                                                                   | 20                                                               | 47                                                                               | 40                                                                               | 60 - 140                                                                                                                                                                      | 118                                                                                             |
|                                                                                                     |                    | TRH C15-C28                                                                                                                                                                                                                                 | mg/kg                                                                   | 45                                                               | <45                                                                              | 40                                                                               | 60 - 140                                                                                                                                                                      | 110                                                                                             |
|                                                                                                     |                    |                                                                                                                                                                                                                                             |                                                                         |                                                                  |                                                                                  | 40                                                                               | 60 - 140                                                                                                                                                                      | 98                                                                                              |
|                                                                                                     |                    | TRH C29-C36                                                                                                                                                                                                                                 | mg/kg                                                                   | 45                                                               | <45                                                                              |                                                                                  | 00-140                                                                                                                                                                        |                                                                                                 |
|                                                                                                     | TRH F Bands        | TRH >C10-C16                                                                                                                                                                                                                                | mg/kg<br>mg/kg                                                          | 25                                                               | 49                                                                               | 40                                                                               | 60 - 140                                                                                                                                                                      | 123                                                                                             |
|                                                                                                     | TRH F Bands        |                                                                                                                                                                                                                                             |                                                                         |                                                                  |                                                                                  |                                                                                  |                                                                                                                                                                               | 123<br>100                                                                                      |
|                                                                                                     | TRH F Bands        | TRH >C10-C16                                                                                                                                                                                                                                | mg/kg                                                                   | 25                                                               | 49                                                                               | 40                                                                               | 60 - 140                                                                                                                                                                      |                                                                                                 |
| RH (Total Recove                                                                                    | TRH F Bands        | TRH >C10-C16<br>TRH >C16-C34 (F3)<br>TRH >C34-C40 (F4)                                                                                                                                                                                      | mg/kg<br>mg/kg                                                          | 25<br>90                                                         | 49<br><90                                                                        | 40<br>40<br>20                                                                   | 60 - 140<br>60 - 140                                                                                                                                                          | 100<br>95                                                                                       |
| •                                                                                                   | arable Hydrocarbo  | TRH >C10-C16<br>TRH >C16-C34 (F3)<br>TRH >C34-C40 (F4)<br>s) in Water                                                                                                                                                                       | mg/kg<br>mg/kg<br>mg/kg                                                 | 25<br>90<br>120                                                  | 49<br><90<br><120                                                                | 40<br>40<br>20                                                                   | 60 - 140<br>60 - 140<br>60 - 140<br><b>/ethod: ME-(A</b>                                                                                                                      | 100<br>95<br>U <b>)-[ENV]AN</b>                                                                 |
| Sample Number                                                                                       | arable Hydrocarbo  | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         is) in Water         Parameter                                                                                                                                     | mg/kg<br>mg/kg<br>Unite                                                 | 25<br>90<br>120<br>s LOR                                         | 49<br><90<br><120<br>Result                                                      | 40<br>40<br>20<br>M<br>Expected                                                  | 60 - 140<br>60 - 140<br>60 - 140<br><b>Aethod: ME-(A</b><br>Criteria %                                                                                                        | 100<br>95<br>U)-[ENV]AN<br>Recovery                                                             |
| Sample Number                                                                                       | arable Hydrocarbo  | TRH >C10-C16<br>TRH >C16-C34 (F3)<br>TRH >C34-C40 (F4)<br>s) In Water<br>Parameter<br>TRH C10-C14                                                                                                                                           | mg/kg<br>mg/kg<br>Unite<br>µg/L                                         | 25<br>90<br>120                                                  | 49<br><90<br><120<br>Result<br>890                                               | 40<br>40<br>20<br>Expected<br>1200                                               | 60 - 140<br>60 - 140<br>60 - 140<br>Aethod: ME-(A<br>Criteria %<br>60 - 140                                                                                                   | 100<br>95<br>U <b>)-[ENV]AN</b>                                                                 |
| Sample Number                                                                                       | arable Hydrocarbo  | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         is) in Water         Parameter         TRH C10-C14         TRH C15-C28                                                                                             | mg/kg<br>mg/kg<br>mg/kg<br>Unite<br>µg/L<br>µg/L                        | 25<br>90<br>120<br>s LOR<br>50<br>200                            | 49<br><90<br><120<br>Result<br>890<br>1100                                       | 40<br>40<br>20<br>Expected<br>1200<br>1200                                       | 60 - 140<br>60 - 140<br>60 - 140<br><b>Aethod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140                                                                         | 100<br>95<br><b>U)-[ENV]AN</b><br>Recovery<br>74<br>95                                          |
| Sample Number                                                                                       | erable Hydrocarboi | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) In Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36                                                                          | mg/kg<br>mg/kg<br>mg/kg<br>Units<br>µg/L<br>µg/L<br>µg/L                | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200                     | 49<br><90<br><120<br>Result<br>890<br>1100<br>1300                               | 40<br>40<br>20<br>Expected<br>1200<br>1200<br>1200                               | 60 - 140<br>60 - 140<br>60 - 140<br><b>Aethod: ME-(A</b><br>Criteria %<br>60 - 140<br>60 - 140<br>60 - 140                                                                    | 100<br>95<br>U)-[ENV]AN<br>Recovery<br>74<br>95<br>107                                          |
| Sample Number                                                                                       | arable Hydrocarbo  | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) in Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH >C10-C16                                                     | mg/kg<br>mg/kg<br>mg/kg<br>Unit<br>µg/L<br>µg/L<br>µg/L<br>µg/L         | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200<br>60               | 49<br><90<br><120<br><b>Result</b><br>890<br>1100<br>1300<br>1000                | 40<br>40<br>20<br><b>Expected</b><br>1200<br>1200<br>1200<br>1200                | 60 - 140<br>60 - 140<br>60 - 140<br><b>Aethod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                 | 100<br>95<br>U)-[ENV]AN<br>Recovery<br>74<br>95<br>107<br>83                                    |
| Sample Number                                                                                       | erable Hydrocarboi | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) in Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH >C10-C16         TRH >C10-C34 (F3)                           | mg/kg<br>mg/kg<br>mg/kg<br>Unit<br>µg/L<br>µg/L<br>µg/L<br>µg/L<br>µg/L | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200<br>60<br>500        | 49<br><90<br><120<br><b>Result</b><br>890<br>1100<br>1300<br>1000<br>1400        | 40<br>40<br>20<br>Expected<br>1200<br>1200<br>1200<br>1200<br>1200               | 60 - 140<br>60 - 140<br>60 - 140<br><b>Acthod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                 | 100<br>95<br><b>U)-[ENV]AN</b><br>Recovery<br>74<br>95<br>107<br>83<br>113                      |
| Sample Number<br>.B204298.002                                                                       | erable Hydrocarboi | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) in Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH >C10-C16                                                     | mg/kg<br>mg/kg<br>mg/kg<br>Unit<br>µg/L<br>µg/L<br>µg/L<br>µg/L         | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200<br>60               | 49<br><90<br><120<br><b>Result</b><br>890<br>1100<br>1300<br>1000                | 40<br>40<br>20<br><b>Expected</b><br>1200<br>1200<br>1200<br>1200<br>1200<br>600 | 60 - 140<br>60 - 140<br>60 - 140<br><b>Acthod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                     | 100<br>95<br><b>U)-[ENV]AN</b><br>Recovery<br>74<br>95<br>107<br>83<br>113<br>101               |
| Sample Number<br>B204298.002                                                                        | erable Hydrocarboi | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) in Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH >C10-C16         TRH >C10-C34 (F3)                           | mg/kg<br>mg/kg<br>mg/kg<br>Unit<br>µg/L<br>µg/L<br>µg/L<br>µg/L<br>µg/L | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200<br>60<br>500        | 49<br><90<br><120<br><b>Result</b><br>890<br>1100<br>1300<br>1000<br>1400        | 40<br>40<br>20<br><b>Expected</b><br>1200<br>1200<br>1200<br>1200<br>1200<br>600 | 60 - 140<br>60 - 140<br>60 - 140<br><b>Acthod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                 | 100<br>95<br><b>U)-[ENV]AN</b><br>Recovery<br>74<br>95<br>107<br>83<br>113<br>101               |
| Sample Number<br>B204298.002<br>DC's in Soil                                                        | TRH F Bands        | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) in Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH >C10-C16         TRH >C10-C34 (F3)                           | mg/kg<br>mg/kg<br>mg/kg<br>Unit<br>µg/L<br>µg/L<br>µg/L<br>µg/L<br>µg/L | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200<br>60<br>500<br>500 | 49<br><90<br><120<br><b>Result</b><br>890<br>1100<br>1300<br>1000<br>1400        | 40<br>40<br>20<br><b>Expected</b><br>1200<br>1200<br>1200<br>1200<br>1200<br>600 | 60 - 140<br>60 - 140<br>60 - 140<br><b>Acthod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                     | 100<br>95<br>U)-[ENV]AN<br>Recovery<br>74<br>95<br>107<br>83<br>113<br>101<br>101<br>U)-[ENV]AN |
| RH (Total Recove<br>Sample Number<br>LB204298.002<br>'OC's in Soil<br>Sample Number<br>LB204339.002 | TRH F Bands        | TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         s) In Water         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH >C10-C16         TRH >C16-C34 (F3)         TRH >C34-C40 (F4) | mg/kg<br>mg/kg<br>mg/kg<br>μg/L<br>μg/L<br>μg/L<br>μg/L<br>μg/L<br>μg/L | 25<br>90<br>120<br>s LOR<br>50<br>200<br>200<br>60<br>500<br>500 | 49<br><90<br><120<br><b>Result</b><br>890<br>1100<br>1300<br>1000<br>1400<br>610 | 40<br>40<br>20<br><b>Expected</b><br>1200<br>1200<br>1200<br>1200<br>600         | 60 - 140<br>60 - 140<br>60 - 140<br><b>Aethod: ME-(A</b><br><b>Criteria %</b><br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br><b>Kethod: ME-(A</b> | 100<br>95<br>U)-[ENV]AN<br>Recovery<br>74<br>95<br>107<br>83<br>113<br>101<br>U)-[ENV]AN        |

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

0.1

0.1

0.2

0.1

3.4

4.1

8.2

4.1

9.1

5

5

10

5

10

60 - 140

60 - 140

60 - 140

60 - 140

70 - 130

Aromatic

Toluene

Ethylbenzene

d4-1,2-dichloroethane (Surrogate)

m/p-xylene

o-xylene

67

82

82

82

91



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 (conti | nued)              |                                   |       |     |        |          | Method: ME-(A | U)-[ENV]AN4:          |
|----------------------|--------------------|-----------------------------------|-------|-----|--------|----------|---------------|-----------------------|
| Sample Number        |                    | Parameter                         | Units | LOR | Result | Expected | Criteria %    | Recovery %            |
| LB204339.002         | Surrogates         | d8-toluene (Surrogate)            | mg/kg | -   | 8.8    | 10       | 70 - 130      | 88                    |
|                      |                    | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 7.1    | 10       | 70 - 130      | 71                    |
| LB204340.002         | Monocyclic         | Benzene                           | mg/kg | 0.1 | 5.2    | 5        | 60 - 140      | 104                   |
|                      | Aromatic           | Toluene                           | mg/kg | 0.1 | 5.1    | 5        | 60 - 140      | 102                   |
|                      |                    | Ethylbenzene                      | mg/kg | 0.1 | 5.2    | 5        | 60 - 140      | 104                   |
|                      |                    | m/p-xylene                        | mg/kg | 0.2 | 10     | 10       | 60 - 140      | 104                   |
|                      |                    | o-xylene                          | mg/kg | 0.1 | 5.2    | 5        | 60 - 140      | 103                   |
|                      | Surrogates         | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 9.2    | 10       | 70 - 130      | 92                    |
|                      |                    | d8-toluene (Surrogate)            | mg/kg | -   | 9.2    | 10       | 70 - 130      | 92                    |
|                      |                    | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 7.8    | 10       | 70 - 130      | 78                    |
| OCs in Water         |                    |                                   |       |     |        | I        | Method: ME-(A | U)-[ENV]AN4           |
| Sample Number        |                    | Parameter                         | Units | LOR | Result | Expected | Criteria %    | Recovery              |
| LB204439.002         | Monocyclic         | Benzene                           | µg/L  | 0.5 | 45     | 45.45    | 60 - 140      | 100                   |
|                      | Aromatic           | Toluene                           | µg/L  | 0.5 | 47     | 45.45    | 60 - 140      | 104                   |
|                      |                    | Ethylbenzene                      | µg/L  | 0.5 | 47     | 45.45    | 60 - 140      | 103                   |
|                      |                    | m/p-xylene                        | µg/L  | 1   | 94     | 90.9     | 60 - 140      | 103                   |
|                      |                    | o-xylene                          | µg/L  | 0.5 | 48     | 45.45    | 60 - 140      | 107                   |
|                      | Surrogates         | d4-1,2-dichloroethane (Surrogate) | µg/L  | -   | 9.5    | 10       | 60 - 140      | 95                    |
|                      |                    | d8-toluene (Surrogate)            | µg/L  | -   | 9.9    | 10       | 70 - 130      | 99                    |
|                      |                    | Bromofluorobenzene (Surrogate)    | µg/L  | -   | 10.0   | 10       | 70 - 130      | 100                   |
| /olatile Petroleum I | -lydrocarbons in S | Soil                              |       |     |        | I        | Method: ME-(A | U)-[ENV]AN4           |
| Sample Number        |                    | Parameter                         | Units | LOR | Result | Expected | Criteria %    | Recovery <sup>o</sup> |
| LB204339.002         |                    | TRH C6-C10                        | mg/kg | 25  | 67     | 92.5     | 60 - 140      | 72                    |
|                      |                    | TRH C6-C9                         | mg/kg | 20  | 58     | 80       | 60 - 140      | 72                    |
|                      | Surrogates         | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 9.1    | 10       | 70 - 130      | 91                    |
|                      |                    | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 7.1    | 10       | 70 - 130      | 71                    |
|                      | VPH F Bands        | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25  | 44     | 62.5     | 60 - 140      | 70                    |
| LB204340.002         |                    | TRH C6-C10                        | mg/kg | 25  | 72     | 92.5     | 60 - 140      | 78                    |
|                      |                    | TRH C6-C9                         | mg/kg | 20  | 62     | 80       | 60 - 140      | 78                    |
|                      | Surrogates         | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 9.2    | 10       | 70 - 130      | 92                    |
|                      |                    | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 7.8    | 10       | 70 - 130      | 78                    |
|                      | VPH F Bands        | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25  | 41     | 62.5     | 60 - 140      | 65                    |
| olatile Petroleum I  | -lydrocarbons in V | Vater                             |       |     |        | 1        | Method: ME-(A | U)-[ENV]AN4           |
| Sample Number        |                    | Parameter                         | Units | LOR | Result | Expected | Criteria %    | Recovery              |
| LB204439.002         |                    | TRH C6-C10                        | µg/L  | 50  | 920    | 946.63   | 60 - 140      | 98                    |
|                      |                    | TRH C6-C9                         | µg/L  | 40  | 830    | 818.71   | 60 - 140      | 102                   |
|                      | Surrogates         | d4-1,2-dichloroethane (Surrogate) | µg/L  | -   | 9.5    | 10       | 60 - 140      | 95                    |
|                      |                    | d8-toluene (Surrogate)            | µg/L  | -   | 9.9    | 10       | 70 - 130      | 99                    |
|                      |                    | Bromofluorobenzene (Surrogate)    | µg/L  | -   | 10.0   | 10       | 70 - 130      | 100                   |
|                      | VPH F Bands        | TRH C6-C10 minus BTEX (F1)        | µg/L  | 50  | 640    | 639.67   | 60 - 140      | 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.

| Mercury (dissolve | d) in Water   |           |       |        | Met    | hod: ME-(AU)- | ENVJAN311 | (Perth)/AN312 |
|-------------------|---------------|-----------|-------|--------|--------|---------------|-----------|---------------|
| QC Sample         | Sample Number | Parameter | Units | LOR    | Result | Original      | Spike     | Recovery%     |
| SE208589.037      | LB204300.004  | Mercury   | mg/L  | 0.0001 | 0.0082 | <0.0001       | 0.008     | 102           |

#### Mercury in Soil

| Mercury in Soil |               |           |       |      |        | Met      | hod: ME-(Al | J)-[ENV]AN312 |
|-----------------|---------------|-----------|-------|------|--------|----------|-------------|---------------|
| QC Sample       | Sample Number | Parameter | Units | LOR  | Result | Original | Spike       | Recovery%     |
| SE208655.001    | LB204384.004  | Mercury   | mg/kg | 0.05 | 0.22   | <0.05    | 0.2         | 104           |
| SE208714.001    | LB204386.004  | Mercury   | mg/kg | 0.05 | 0.22   | <0.05    | 0.2         | 105           |

### **OC Pesticides in Soil**

| OC Pesticides in | Soil          |            |                                         |         |     |        | Mett     | nod: ME-(AL | )-[ENV]AN420 |
|------------------|---------------|------------|-----------------------------------------|---------|-----|--------|----------|-------------|--------------|
| QC Sample        | Sample Number |            | Parameter                               | Units   | LOR | Result | Original | Spike       | Recovery     |
| SE208655.001     | LB204342.004  |            | Hexachlorobenzene (HCB)                 | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Alpha BHC                               | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Lindane                                 | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Heptachlor                              | mg/kg   | 0.1 | 0.2    | <0.1     | 0.2         | 102          |
|                  |               |            | Aldrin                                  | mg/kg   | 0.1 | 0.2    | <0.1     | 0.2         | 97           |
|                  |               |            | Beta BHC                                | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Delta BHC                               | mg/kg   | 0.1 | 0.2    | <0.1     | 0.2         | 95           |
|                  |               |            | Heptachlor epoxide                      | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | o,p'-DDE                                | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Alpha Endosulfan                        | mg/kg   | 0.2 | <0.2   | <0.2     | -           | -            |
|                  |               |            | Gamma Chlordane                         | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Alpha Chlordane                         | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | trans-Nonachlor                         | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | p,p'-DDE                                | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Dieldrin                                | mg/kg   | 0.2 | <0.2   | <0.2     | 0.2         | 96           |
|                  |               |            | Endrin                                  | mg/kg   | 0.2 | <0.2   | <0.2     | 0.2         | 99           |
|                  |               |            | o,p'-DDD                                | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | o,p'-DDT                                | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Beta Endosulfan                         | mg/kg   | 0.2 | <0.2   | <0.2     | -           | -            |
|                  |               |            | p,p'-DDD                                | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | p,p'-DDT                                | mg/kg   | 0.1 | 0.2    | <0.1     | 0.2         | 86           |
|                  |               |            | Endosulfan sulphate                     | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Endrin Aldehyde                         | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Methoxychlor                            | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Endrin Ketone                           | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Isodrin                                 | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Mirex                                   | mg/kg   | 0.1 | <0.1   | <0.1     | -           | -            |
|                  |               |            | Total CLP OC Pesticides                 | mg/kg   | 1   | 1      | <1       | -           | _            |
|                  |               | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg   | -   | 0.15   | 0.15     | -           | 101          |
| P Pesticides in  | Soil          |            |                                         |         |     |        | Mett     | nod: ME-(AL | )-[ENV]AN42  |
| QC Sample        | Sample Number | _          | Parameter                               | Units   | LOR | Result | Original | Spike       | Recovery     |
| SE208655.001     | LB204342.004  |            | Dichlorvos                              | mg/kg   | 0.5 | 1.5    | <0.5     | 2           | 73           |
|                  |               |            | Dimethoate                              | mg/kg   | 0.5 | <0.5   | <0.5     | -           | -            |
|                  |               |            | Diazinon (Dimpylate)                    | mg/kg   | 0.5 | 1.8    | <0.5     | 2           | 89           |
|                  |               |            | Fenitrothion                            | mg/kg   | 0.2 | <0.2   | <0.2     | -           | -            |
|                  |               |            | Malathion                               | mg/kg   | 0.2 | <0.2   | <0.2     | -           |              |
|                  |               |            | Chlorpyrifos (Chlorpyrifos Ethyl)       | mg/kg   | 0.2 | 1.8    | <0.2     | 2           | 88           |
|                  |               |            | Parathion-ethyl (Parathion)             | mg/kg   | 0.2 | <0.2   | <0.2     | -           | -            |
|                  |               |            | Bromophos Ethyl                         | mg/kg   | 0.2 | <0.2   | <0.2     | -           | -            |
|                  |               |            | Methidathion                            | mg/kg   | 0.2 | <0.2   | <0.2     |             |              |
|                  |               |            | Weatured                                | iiig/Kg | 0.0 | ~0.5   | ~0.0     | -           | -            |

0.5 -80 Method: ME-(AU)-[ENV]AN420

2

-

< 0.2

<0.2

<1.7

0.5

0.2

0.2

1.7

-

1.3

<0.2

6.3

0.4

0.4

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

| QC Sample | Sample Number | Parameter | Units | LOR |
|-----------|---------------|-----------|-------|-----|
|           |               |           |       |     |

Azinphos-methyl (Guthion)

2-fluorobiphenyl (Surrogate)

d14-p-terphenyl (Surrogate)

Total OP Pesticides\*

Ethion

Surrogates

63

83



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.

| C Sample                                               | Sample Number                                          |                | Parameter                                                                                                                                          | Units                                                                                                    | LOR                                                                    | Result                                      | Original                                                                             | Spike                                                                                  | Recover                                                                                      |
|--------------------------------------------------------|--------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| E208655.001                                            | LB204342.004                                           |                | Naphthalene                                                                                                                                        |                                                                                                          | 0.1                                                                    | 4.1                                         | <0.1                                                                                 | 4                                                                                      | 101                                                                                          |
| 200033.001                                             | LB204342.004                                           |                | 2-methylnaphthalene                                                                                                                                | mg/kg<br>mg/kg                                                                                           | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | 1-methylnaphthalene                                                                                                                                |                                                                                                          | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                |                                                                                                                                                    | mg/kg                                                                                                    |                                                                        | 4.0                                         | <0.1                                                                                 | 4                                                                                      |                                                                                              |
|                                                        |                                                        |                | Acenaphthylene                                                                                                                                     | mg/kg                                                                                                    | 0.1                                                                    |                                             |                                                                                      | 4                                                                                      | 100                                                                                          |
|                                                        |                                                        |                | Acenaphthene                                                                                                                                       | mg/kg                                                                                                    | 0.1                                                                    | 4.0                                         | <0.1                                                                                 | -                                                                                      | 101                                                                                          |
|                                                        |                                                        |                | Fluorene                                                                                                                                           | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 |                                                                                        |                                                                                              |
|                                                        |                                                        |                | Phenanthrene                                                                                                                                       | mg/kg                                                                                                    | 0.1                                                                    | 3.9                                         | <0.1                                                                                 | 4                                                                                      | 97                                                                                           |
|                                                        |                                                        |                | Anthracene                                                                                                                                         | mg/kg                                                                                                    | 0.1                                                                    | 4.1                                         | <0.1                                                                                 | 4                                                                                      | 101                                                                                          |
|                                                        |                                                        |                | Fluoranthene                                                                                                                                       | mg/kg                                                                                                    | 0.1                                                                    | 4.1                                         | <0.1                                                                                 | 4                                                                                      | 100                                                                                          |
|                                                        |                                                        |                | Pyrene                                                                                                                                             | mg/kg                                                                                                    | 0.1                                                                    | 4.2                                         | <0.1                                                                                 | 4                                                                                      | 104                                                                                          |
|                                                        |                                                        |                | Benzo(a)anthracene                                                                                                                                 | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Chrysene                                                                                                                                           | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Benzo(b&j)fluoranthene                                                                                                                             | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Benzo(k)fluoranthene                                                                                                                               | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Benzo(a)pyrene                                                                                                                                     | mg/kg                                                                                                    | 0.1                                                                    | 3.9                                         | <0.1                                                                                 | 4                                                                                      | 97                                                                                           |
|                                                        |                                                        |                | Indeno(1,2,3-cd)pyrene                                                                                                                             | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Dibenzo(ah)anthracene                                                                                                                              | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | _                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Benzo(ghi)perylene                                                                                                                                 | mg/kg                                                                                                    | 0.1                                                                    | <0.1                                        | <0.1                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ (mg/kg)</td><td>0.1</td><td>3.9</td><td>&lt;0.1</td><td></td><td></td></lor=0<>                   | TEQ (mg/kg)                                                                                              | 0.1                                                                    | 3.9                                         | <0.1                                                                                 |                                                                                        |                                                                                              |
|                                                        |                                                        |                |                                                                                                                                                    |                                                                                                          |                                                                        |                                             |                                                                                      | -                                                                                      |                                                                                              |
|                                                        |                                                        |                | Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>4.0</td><td>&lt;0.3</td><td>-</td><td>-</td></lor=lor<>             | TEQ (mg/kg)                                                                                              | 0.3                                                                    | 4.0                                         | <0.3                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>4.0</td><td>&lt;0.2</td><td>-</td><td>-</td></lor=lor>         | TEQ (mg/kg)                                                                                              | 0.2                                                                    | 4.0                                         | <0.2                                                                                 | -                                                                                      | -                                                                                            |
|                                                        | -                                                      |                | Total PAH (18)                                                                                                                                     | mg/kg                                                                                                    | 0.8                                                                    | 32                                          | <0.8                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        | Surrogates     | d5-nitrobenzene (Surrogate)                                                                                                                        | mg/kg                                                                                                    | -                                                                      | 0.4                                         | 0.4                                                                                  | -                                                                                      | 86                                                                                           |
|                                                        |                                                        |                | 2-fluorobiphenyl (Surrogate)                                                                                                                       | mg/kg                                                                                                    | -                                                                      | 0.4                                         | 0.5                                                                                  | -                                                                                      | 83                                                                                           |
|                                                        |                                                        |                | d14-p-terphenyl (Surrogate)                                                                                                                        | mg/kg                                                                                                    | -                                                                      | 0.4                                         | 0.5                                                                                  | -                                                                                      | 80                                                                                           |
| Bs in Soil                                             |                                                        |                |                                                                                                                                                    |                                                                                                          |                                                                        |                                             | Met                                                                                  | hod: ME-(AL                                                                            | J)-[ENV]AN                                                                                   |
| C Sample                                               | Sample Number                                          |                | Parameter                                                                                                                                          | Units                                                                                                    | LOR                                                                    | Result                                      | Original                                                                             | Spike                                                                                  | Recove                                                                                       |
| E208655.001                                            | LB204342.004                                           |                | 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 1222                                                                                                                                      |                                                                                                          | 0.2                                                                    | <0.2                                        | <0.2                                                                                 |                                                                                        |                                                                                              |
|                                                        |                                                        |                |                                                                                                                                                    | mg/kg                                                                                                    |                                                                        |                                             |                                                                                      | -                                                                                      |                                                                                              |
|                                                        |                                                        |                | 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                                                                    | 0.3                                         | <0.2                                                                                 | 0.4                                                                                    | 84                                                                                           |
|                                                        |                                                        |                | Arochlor 1262                                                                                                                                      | mg/kg                                                                                                    | 0.2                                                                    | <0.2                                        | <0.2                                                                                 | -                                                                                      | -                                                                                            |
|                                                        |                                                        |                | Arochlor 1268                                                                                                                                      | mg/kg                                                                                                    | 0.2                                                                    | <0.2                                        | <0.2                                                                                 | -                                                                                      | -                                                                                            |
|                                                        | -                                                      |                | Total PCBs (Arochlors)                                                                                                                             | mg/kg                                                                                                    | 1                                                                      | <1                                          | <1                                                                                   | -                                                                                      | -                                                                                            |
|                                                        |                                                        | Surrogates     | Tetrachloro-m-xylene (TCMX) (Surrogate)                                                                                                            | mg/kg                                                                                                    | -                                                                      | 0                                           | 0                                                                                    | -                                                                                      | 101                                                                                          |
| al Recoverab                                           | ble Elements in Soil/Was                               | te Solids/Mate | rials by ICPOES                                                                                                                                    |                                                                                                          |                                                                        |                                             | Method: ME                                                                           | -(AU)-IENV                                                                             | IAN040/AI                                                                                    |
| C Sample                                               | Sample Number                                          |                | Parameter                                                                                                                                          | Units                                                                                                    | LOR                                                                    | Result                                      | Original                                                                             | Spike                                                                                  | Recove                                                                                       |
| E208655.001                                            | LB204380.004                                           |                |                                                                                                                                                    |                                                                                                          |                                                                        | 51                                          |                                                                                      |                                                                                        |                                                                                              |
| 208655.001                                             | LB204380.004                                           |                | Arsenic, As                                                                                                                                        | mg/kg                                                                                                    | 1                                                                      |                                             | 4                                                                                    | 50                                                                                     | 95                                                                                           |
|                                                        |                                                        |                | Cadmium, Cd                                                                                                                                        | mg/kg                                                                                                    | 0.3                                                                    | 43                                          | <0.3                                                                                 | 50                                                                                     | 86                                                                                           |
|                                                        |                                                        |                |                                                                                                                                                    |                                                                                                          |                                                                        | 64                                          | 11                                                                                   | 50                                                                                     | 106                                                                                          |
|                                                        |                                                        |                | Chromium, Cr                                                                                                                                       | mg/kg                                                                                                    | 0.5                                                                    |                                             |                                                                                      |                                                                                        |                                                                                              |
|                                                        |                                                        |                | Copper, Cu                                                                                                                                         | mg/kg<br>mg/kg                                                                                           | 0.5                                                                    | 69                                          | 24                                                                                   | 50                                                                                     | 90                                                                                           |
|                                                        |                                                        |                |                                                                                                                                                    |                                                                                                          |                                                                        |                                             |                                                                                      | 50<br>50                                                                               | 90<br>92                                                                                     |
|                                                        |                                                        |                | Copper, Cu                                                                                                                                         | mg/kg                                                                                                    | 0.5                                                                    | 69                                          | 24                                                                                   |                                                                                        |                                                                                              |
|                                                        |                                                        |                | Copper, Cu<br>Nickel, Ni                                                                                                                           | mg/kg<br>mg/kg                                                                                           | 0.5<br>0.5                                                             | 69<br>59                                    | 24<br>13                                                                             | 50                                                                                     | 92<br>89                                                                                     |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb                                                                                                               | mg/kg<br>mg/kg<br>mg/kg                                                                                  | 0.5<br>0.5<br>1                                                        | 69<br>59<br>56                              | 24<br>13<br>12                                                                       | 50<br>50                                                                               | 92<br>89                                                                                     |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                         | 0.5<br>0.5<br>1<br>2                                                   | 69<br>59<br>56                              | 24<br>13<br>12<br>34                                                                 | 50<br>50<br>50                                                                         | 92<br>89<br>287 (<br>83                                                                      |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As                                                                                    | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                | 0.5<br>0.5<br>1<br>2<br>1                                              | 69<br>59<br>56                              | 24<br>13<br>12<br>34<br>3                                                            | 50<br>50<br>50<br>50                                                                   | 92<br>89<br>287 (                                                                            |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr                                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                              | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5                                | 69<br>59<br>56                              | 24<br>13<br>12<br>34<br>3<br><0.3<br>4.1                                             | 50<br>50<br>50<br>50<br>50<br>50<br>50                                                 | 92<br>89<br>287 (<br>83<br>78<br>86                                                          |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd                                                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                     | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5                         | 69<br>59<br>56                              | 24<br>13<br>12<br>34<br>3<br><0.3<br>4.1<br>11                                       | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                                           | 92<br>89<br>287 (<br>83<br>78<br>86<br>86<br>83                                              |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni                         | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                            | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5                  | 69<br>59<br>56<br>180                       | 24<br>13<br>12<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0                                | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                                     | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>83<br>87                                        |
| 208714.001                                             | LB204381.005                                           |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni<br>Lead, Pb             | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5<br>1             | 69<br>59<br>56                              | 24<br>13<br>12<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0<br>19                          | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                         | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>86<br>83<br>87<br>67 †                          |
|                                                        |                                                        |                | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni                         | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                            | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5                  | 69<br>59<br>56<br>180                       | 24<br>13<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0<br>19<br>26                          | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                         | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>87<br>67 †<br>80                                |
|                                                        | LB204381.005                                           | PMS            | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni<br>Lead, Pb             | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5<br>1             | 69<br>59<br>56<br>180                       | 24<br>13<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0<br>19<br>26                          | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                         | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>87<br>67 †<br>80                                |
| ce Metals (Di                                          |                                                        | PMS            | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni<br>Lead, Pb             | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5<br>1             | 69<br>59<br>56<br>180                       | 24<br>13<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0<br>19<br>26                          | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                         | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>87<br>67 †<br>80<br><b>))-[ENV]A</b> I          |
| 208714.001<br>Ice Metals (Di<br>C Sample<br>208484A.00 | issolved) in Water by IC                               | PMS            | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5<br>1<br>2        | 69<br>59<br>56<br>180<br>53                 | 24<br>13<br>12<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0<br>19<br>26<br>Ket             | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>60       | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>87<br>67 †<br>80                                |
| <mark>ce Metals (Di</mark><br>C Sample                 | <mark>issolved) in Water by IC</mark><br>Sample Number | PMS            | Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn<br>Arsenic, As<br>Cadmium, Cd<br>Chromium, Cr<br>Copper, Cu<br>Nickel, Ni<br>Lead, Pb<br>Zinc, Zn | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | 0.5<br>0.5<br>1<br>2<br>1<br>0.3<br>0.5<br>0.5<br>0.5<br>1<br>2<br>LOR | 69<br>59<br>56<br>180<br>53<br>53<br>Result | 24<br>13<br>12<br>34<br>3<br><0.3<br>4.1<br>11<br>4.0<br>19<br>26<br>Met<br>Original | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>hod: ME-(AL<br>Spike | 92<br>89<br>287 (<br>83<br>78<br>86<br>83<br>87<br>67 †<br>80<br><b>)-[ENV]A</b> I<br>Recove |



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.

| QC Sample      | ssolved) in Water by<br>Sample Number |             |                                   | Units  | LOR | Result | Original |             | J)-[ENV]AN3 |
|----------------|---------------------------------------|-------------|-----------------------------------|--------|-----|--------|----------|-------------|-------------|
|                |                                       |             | Parameter                         |        |     |        |          | Spike       | Recover     |
| SE208484A.00   | LB204402.004                          |             | Copper, Cu                        | µg/L   | 1   | 26     | 4        | 20          | 110         |
| 1              |                                       |             | Lead, Pb                          | μg/L   | 1   | 21     | <1       | 20          | 105         |
|                |                                       |             | Zinc, Zn                          | µg/L   | 5   | 81     | 61       | 20          | 102         |
| RH (Total Reco | verable Hydrocarbon                   | s) in Soil  |                                   |        |     |        | Meth     | nod: ME-(Al | J)-[ENV]AN  |
| QC Sample      | Sample Number                         |             | Parameter                         | Units  | LOR | Result | Original | Spike       | Recover     |
| SE208655.001   | LB204342.004                          |             | TRH C10-C14                       | mg/kg  | 20  | 43     | <20      | 40          | 108         |
|                |                                       |             | TRH C15-C28                       | mg/kg  | 45  | <45    | <45      | 40          | 85          |
|                |                                       |             | TRH C29-C36                       | mg/kg  | 45  | <45    | <45      | 40          | 93          |
|                |                                       |             | TRH C37-C40                       | mg/kg  | 100 | <100   | <100     | -           | -           |
|                |                                       |             | TRH C10-C36 Total                 | mg/kg  | 110 | <110   | <110     | -           | -           |
|                |                                       |             | TRH >C10-C40 Total (F bands)      | mg/kg  | 210 | <210   | <210     | -           | -           |
|                |                                       | TRH F Bands | TRH >C10-C16                      | mg/kg  | 25  | 40     | <25      | 40          | 100         |
|                |                                       |             | TRH >C10-C16 - Naphthalene (F2)   | mg/kg  | 25  | 40     | <25      | -           | -           |
|                |                                       |             | TRH >C16-C34 (F3)                 | mg/kg  | 90  | <90    | <90      | 40          | 88          |
|                |                                       |             | TRH >C34-C40 (F4)                 | mg/kg  | 120 | <120   | <120     | -           | -           |
| OC's in Soil   |                                       |             |                                   |        |     |        | Mett     | nod: ME-(Al | J)-IENVIAN  |
|                | Comple Number                         |             | Devenuedar                        | Unite  |     | Decult |          |             |             |
| QC Sample      | Sample Number                         |             | Parameter                         | Units  | LOR | Result | Original | Spike       | Recove      |
| SE208655.001   | LB204339.004                          | Monocyclic  | Benzene                           | mg/kg  | 0.1 | 3.4    | <0.1     | 5           | 68          |
|                |                                       | Aromatic    | Toluene                           | mg/kg  | 0.1 | 3.4    | <0.1     | 5           | 68          |
|                |                                       |             | Ethylbenzene                      | mg/kg  | 0.1 | 4.2    | <0.1     | 5           | 84          |
|                |                                       |             | m/p-xylene                        | mg/kg  | 0.2 | 8.5    | <0.2     | 10          | 85          |
|                |                                       |             | o-xylene                          | mg/kg  | 0.1 | 4.2    | <0.1     | 5           | 85          |
|                |                                       | Polycyclic  | Naphthalene                       | mg/kg  | 0.1 | <0.1   | <0.1     | -           | -           |
|                |                                       | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg  | -   | 8.5    | 8.3      | 10          | 85          |
|                |                                       |             | d8-toluene (Surrogate)            | mg/kg  | -   | 7.9    | 8.0      | 10          | 79          |
|                |                                       |             | Bromofluorobenzene (Surrogate)    | mg/kg  | -   | 6.5    | 7.1      | 10          | 65 ①        |
|                |                                       | Totals      | Total Xylenes                     | mg/kg  | 0.3 | 13     | <0.3     | -           | -           |
|                |                                       |             | Total BTEX                        | mg/kg  | 0.6 | 24     | <0.6     | -           | -           |
| SE208655.017   | LB204340.004                          | Monocyclic  | Benzene                           | mg/kg  | 0.1 | 4.4    | <0.1     | 5           | 89          |
|                |                                       | Aromatic    | Toluene                           | mg/kg  | 0.1 | 4.4    | <0.1     | 5           | 88          |
|                |                                       |             | Ethylbenzene                      | mg/kg  | 0.1 | 4.5    | <0.1     | 5           | 91          |
|                |                                       |             | m/p-xylene                        | mg/kg  | 0.2 | 9.1    | <0.2     | 10          | 91          |
|                |                                       |             | o-xylene                          | mg/kg  | 0.1 | 4.5    | <0.1     | 5           | 90          |
|                |                                       | Polycyclic  | Naphthalene                       | mg/kg  | 0.1 | <0.1   | <0.1     | -           | -           |
|                |                                       | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg  | -   | 7.9    | 8.7      | 10          | 79          |
|                |                                       |             | d8-toluene (Surrogate)            | mg/kg  | -   | 7.9    | 8.4      | 10          | 79          |
|                |                                       |             | Bromofluorobenzene (Surrogate)    | mg/kg  | -   | 6.7    | 7.1      | 10          | 67 ①        |
|                |                                       | Totals      | Total Xylenes                     | mg/kg  | 0.3 | 14     | <0.3     | -           | -           |
|                |                                       |             | Total BTEX                        | mg/kg  | 0.6 | 27     | <0.6     | -           | -           |
| OCs in Water   |                                       |             |                                   |        |     |        | Meth     | nod: ME-(Al | J)-[ENV]AN  |
| QC Sample      | Sample Number                         |             | Parameter                         | Units  | LOR | Result | Original | Spike       | Recove      |
| SE208484A.00   | LB204439.023                          | Monocyclic  | Benzene                           | μg/L   | 0.5 | 48     | <0.5     | 45.45       | 106         |
| 9              |                                       | Aromatic    | Toluene                           | µg/L   | 0.5 | 47     | <0.5     | 45.45       | 100         |
|                |                                       |             | Ethylbenzene                      | μg/L   | 0.5 | 47     | <0.5     | 45.45       | 100         |
|                |                                       |             | m/p-xylene                        | µg/L   | 1   | 95     | <1       | 90.9        | 104         |
|                |                                       |             | o-xylene                          | μg/L   | 0.5 | 47     | <0.5     | 45.45       | 103         |
|                |                                       | Polycyclic  | Naphthalene                       | μg/L   | 0.5 | 43     | <0.5     | -           | -           |
|                |                                       | Surrogates  | d4-1,2-dichloroethane (Surrogate) | μg/L   | -   | 10.5   | 11.1     |             | 105         |
|                |                                       | 00090(00    | d8-toluene (Surrogate)            | μg/L   |     | 10.3   | 9.7      |             | 103         |
|                |                                       |             | Bromofluorobenzene (Surrogate)    | μg/L   | -   | 9.9    | 9.9      |             | 99          |
| alatila Detect | n Hudersont and K. O                  | - 11        |                                   | 29°C   |     | 0.0    |          |             |             |
|                | m Hydrocarbons in So                  |             |                                   |        |     |        |          | nod: ME-(Al |             |
| QC Sample      | Sample Number                         |             | Parameter                         | Units  | LOR | Result | Original | Spike       | Recove      |
| SE208655.001   | LB204339.004                          |             | TRH C6-C10                        | mg/kg  | 25  | 68     | <25      | 92.5        | 73          |
|                |                                       |             | TRH C6-C9                         | mg/kg  | 20  | 62     | <20      | 80          | 77          |
|                |                                       | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg  | -   | 8.5    | 8.3      | 10          | 85          |
|                |                                       |             | d8-toluene (Surrogate)            | mg/kg  | -   | 7.9    | 8.0      | 10          | 79          |
|                |                                       |             | Bromofluorobenzene (Surrogate)    | mg/kg  | -   | 6.5    | 7.1      | -           | 65          |
|                |                                       |             | Banzona (EQ)                      | mg/kg  | 0.1 | 3.4    | <0.1     | -           | -           |
|                |                                       | VPH F       | Benzene (F0)                      | nig/kg | 0.1 | 0.4    | -0.1     | -           |             |

20/7/2020



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% SE208655.017 LB204340.004 TRH C6-C10 mg/kg 25 66 <25 92.5 71 TRH C6-C9 mg/kg 20 57 <20 80 72 Surrogates d4-1,2-dichloroethane (Surrogate) 7.9 8.7 10 79 mg/kg d8-toluene (Surrogate) mg/kg -7.9 8.4 10 79 Bromofluorobenzene (Surrogate) 6.7 7.1 67 mg/kg -VPH F Benzene (F0) 0.1 4.4 <0.1 mg/kg TRH C6-C10 minus BTEX (F1) 62.5 25 38 <25 62 Bands mg/kg Volatile Petroleum Hydrocarbons in Water Method: ME-(AU)-[ENV]AN433 Result Original Spike Recovery% QC Sample Sample Number Units LOR Parameter SE208484A.00 LB204439.023 TRH C6-C10 946.63 50 930 <50 98 µg/L 9 TRH C6-C9 µg/L 40 800 <40 818.71 98 Surrogates d4-1,2-dichloroethane (Surrogate) µg/L 0.0 11.1 105 d8-toluene (Surrogate) 0.0 9.7 103 µg/L 0.0 99 Bromofluorobenzene (Surrogate) µg/L 9.9 VPH F Benzene (F0) µg/L 0.5 48 <0.5 Bands TRH C6-C10 minus BTEX (F1) 50 640 <50 639.67 101 µg/L



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 end of this report for failure reasons.

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.
- 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.
- 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.
- O LOR was raised due to dilution of significantly high concentration of analyte in sample.
- Image: Image:
- Recovery failed acceptance criteria due to sample heterogeneity.
- <sup>®</sup> LOR was raised due to high conductivity of the sample (required dilution).
- t Refer to relevant report comments for further information.

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# STATEMENT OF QA/QC PERFORMANCE

| CLIENT DETAILS |                                                    | LABORATORY DETAI | ILS                                          |
|----------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager          | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference    | SE208846 R0                                  |
| Order Number   | E24724.E02                                         | Date Received    | 17 Jul 2020                                  |
| Samples        | 14                                                 | Date Reported    | 24 Jul 2020                                  |

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

SGS Australia Pty Ltd ABN 44 000 964 278 Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Alexandria NSW 2015 Australia t +61 2 8594 0400 Australia f +61 2 8594 0499

www.sgs.com.au



# HOLDING TIME SUMMARY

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.

| Bits 1.6.2         SP28846.01         LIP2000         Dit J AV 200         Dit J AV 200 <thdit 200<="" av="" th=""> <thdit 200<="" av="" th=""> <t< th=""><th>Fibre Identification in soil</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Method: I</th><th>ME-(AU)-[ENV]AN60</th></t<></thdit></thdit>  | Fibre Identification in soil |                                       |          |             |             |                |             | Method: I    | ME-(AU)-[ENV]AN60 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------|-------------|-------------|----------------|-------------|--------------|-------------------|
| 98.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9.       9. <t< th=""><th>Sample Name</th><th>Sample No.</th><th>QC Ref</th><th>Sampled</th><th>Received</th><th>Extraction Due</th><th>Extracted</th><th>Analysis Due</th><th>Analysed</th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample Name                  | Sample No.                            | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed          |
| Birth 1.2.2         Birtholdson I.         Linston I.         Distance I. <thdistance i.<="" th=""> <thdistance i.<="" th=""></thdistance></thdistance>                                                                                                                                                                  | BH2_0.1-0.2                  | SE208846.001                          | LB205004 | 09 Jul 2020 | 17 Jul 2020 | 09 Jul 2021    | 23 Jul 2020 | 09 Jul 2021  | 24 Jul 2020       |
| Internal         Bertometero         Internal                                                                                                                                                                                                                                                                                 | BH2_1.6-1.7                  | SE208846.003                          | LB205004 | 09 Jul 2020 | 17 Jul 2020 | 09 Jul 2021    | 23 Jul 2020 | 09 Jul 2021  | 24 Jul 2020       |
| Bink         Schweisson         Disk                                                                                                                                                                                                                                                                                                                                                                                                                | BH3M_0.1-0.2                 | SE208846.004                          | LB205004 | 13 Jul 2020 | 17 Jul 2020 | 13 Jul 2021    | 23 Jul 2020 | 13 Jul 2021  | 24 Jul 2020       |
| Bin May 2-8-9.         BE30084 000         LB30004         1 J. J. 2020         1 J. J. 2021         2 J. J. 2020         1 J. J. 2020         2 J. J. 2020         2 J. J. 2020         2 J. J. 2020         2 J. J. 2020         1 J. J. 2020         2 J. J. 2020         2 J. J. 2020         1 J. J. 2020         2 J. J. 2020         J. J. 2020         J. J. 2020                                                                                                                                                                                      | BH3M_0.7-0.8                 | SE208846.005                          | LB205004 | 13 Jul 2020 |             | 13 Jul 2021    | 23 Jul 2020 | 13 Jul 2021  | 24 Jul 2020       |
| BMM.9.59.01SE2084.001LB2000I + Ju 200I + Ju 201I + Ju 201 <th< td=""><td>BH3M_1.7-1.8</td><td>SE208846.006</td><td>LB205004</td><td>13 Jul 2020</td><td>17 Jul 2020</td><td>13 Jul 2021</td><td>23 Jul 2020</td><td>13 Jul 2021</td><td>24 Jul 2020</td></th<>                                                                                                                                                                                                                                                                                                                                         | BH3M_1.7-1.8                 | SE208846.006                          | LB205004 | 13 Jul 2020 | 17 Jul 2020 | 13 Jul 2021    | 23 Jul 2020 | 13 Jul 2021  | 24 Jul 2020       |
| Bin M. 2-0-30         SE2008-0010         LB20004         H - M 2020         T/- M 2020         H - M 2021         2.3. A 1200         H - M 2021         2.3< A 1200         H - M 2020         H -                                                                                                                                                                                                                  |                              |                                       |          |             |             |                |             |              | 24 Jul 2020       |
| Binshol 10-20       Bick 10-20                                                                                                                                                                                                                                                                               |                              |                                       |          |             |             |                |             |              | 24 Jul 2020       |
| Bindle 1.9.2.0.SE29884.014LB0200419.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.20019.J.4.200 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>24 Jul 2020</td>                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                       |          |             |             |                |             |              | 24 Jul 2020       |
| Instrume         Stands         Construme         Entrantion         Construme         Analysis Dui         A                                                                                                                                                                                      |                              |                                       |          |             |             |                |             |              | 24 Jul 2020       |
| Sample Manna         Stampled No.         QC Ref         Sampled         Reactived         Extracted         Analysis Due         A           Bit2, 51:6.2         BE20646.001         LB04774         06 Jul 2020         17 Jul 2020         06 Aug 2020         21 Jul 2020         16 Aug 2020         21 Jul 2020         11 Aug 2020         22 Jul 2020         11 Aug 2020         <                                                                                                                                                                                                                     |                              | SE208846.014                          | LB205004 | 16 Jul 2020 | 17 Jul 2020 | 16 Jul 2021    | 23 Jul 2020 |              | 24 Jul 2020       |
| Bit 0.10.2       SE20846.001       LEX0H74       09.Ju 0200       17.Ju 0200       06.9.kug 0200       21.Ju 1000       06.9.kug 0200       21.Ju 0200       07.Ju 0200       07                                                                                                                                                                                                                                                                      | •                            |                                       |          |             |             |                |             |              | ME-(AU)-[ENV]AN31 |
| Bir 2, 1-3.1       SE28846.02       LB204774       09. Jul 200       17. Jul 200       06. Aug 200       21. Jul 200       06. Aug 200       22         Bir 2, 16.1       SE28844.004       LB204774       13. Jul 200       17. Jul 220       160. Aug 200       21. Jul 200       10. Aug 200       21. Jul 200       10. Aug 200       22       Jul 200       17. Jul 200       160. Aug 200       21. Jul 200       10. Aug 200       22       Jul 200       17. Jul 200       160. Aug 200       21. Jul 200       10. Aug 200       22       Jul 200       17. Jul 200       17. Jul 200       11. Aug 200       22       Jul 200       11. Aug 200       22       Jul 200       11. Aug 200       21. Jul 200       11. Aug 200       22       Jul 200       11. Aug 200       21. Jul 200       11. Aug 200       22       Jul 200       11. Aug 200       21. Jul 200       Jul 200       11. Aug 200       21. Ju                                                                                                                                                                                                                                                                                                                                             |                              |                                       |          |             |             |                |             |              | Analysed          |
| BP 1. 8 - 7.       SE20884.000       L 200774       0 9 Ju 2000       0 7 Ju 2000       0 9 Ju 2000       0 2 Ju 2000       0 9 Ju 2000       0 2 Ju 2000       0 10 Aug 2000       2 Ju 2000       1 0 Aug 2000       2 Ju 2000       1 1 Aug 2000       2 Ju 2000       1 Ju Aug 200       2 Ju 2000       2 Ju 2000       2 Ju 2000       2 Ju 2000       <                                                                                                                                                                                                                                                                  |                              | SE208846.001                          | LB204774 | 09 Jul 2020 | 17 Jul 2020 | 06 Aug 2020    | 21 Jul 2020 | 06 Aug 2020  | 23 Jul 2020       |
| BYSN 0-102       SE28884.001       LE20174       13 Ju 200       17 Ju 200       10 Aug 200       21 Ju 200       10 Aug 200       2         BYSN 0-708       SE28884.005       LB204774       13 Ju 200       17 Ju 200       10 Aug 200       21 Ju 200       10 Aug 200       2         BYSN 2-788       SE28884.005       LB204774       13 Ju 200       17 Ju 200       10 Aug 200       21 Ju 200       11 Aug 200       22 Ju 200       13 Aug 200       21 Ju 200       13 Aug 200       22 Ju 200       23 Ju 200       22 Ju 200 <td>BH2_1.2-1.3</td> <td>SE208846.002</td> <td>LB204774</td> <td>09 Jul 2020</td> <td>17 Jul 2020</td> <td>06 Aug 2020</td> <td>21 Jul 2020</td> <td>06 Aug 2020</td> <td>23 Jul 2020</td>                                                                                                                                   | BH2_1.2-1.3                  | SE208846.002                          | LB204774 | 09 Jul 2020 | 17 Jul 2020 | 06 Aug 2020    | 21 Jul 2020 | 06 Aug 2020  | 23 Jul 2020       |
| BYBM 0.70.8       SE20886.000       LE204774       13.1.200       17.J.2020       10.1.0.1.200       10.1.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.1.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200       10.0.200 </td <td>BH2_1.6-1.7</td> <td>SE208846.003</td> <td></td> <td>09 Jul 2020</td> <td>17 Jul 2020</td> <td>06 Aug 2020</td> <td>21 Jul 2020</td> <td>06 Aug 2020</td> <td>23 Jul 2020</td>                                                                                                                    | BH2_1.6-1.7                  | SE208846.003                          |          | 09 Jul 2020 | 17 Jul 2020 | 06 Aug 2020    | 21 Jul 2020 | 06 Aug 2020  | 23 Jul 2020       |
| BYM3. 17.16       SE00864.000       LE024774       13.Jul 200       17.Jul 200       10.Jul 200       12.Jul 200       10.Jul 200       2         BYM3. 26.2       SE00864.000       LE024774       14.Jul 200       17.Jul 200       11.Aug 200       21.Jul 200       11.Aug 200       22         BYM4. 0.3.0.       SE00864.000       LE024774       14.Jul 200       17.Jul 200       11.Aug 200       21.Jul 200       11.Aug 200       22         BYM4. 1.4.1.5       SE00864.010       LE024774       14.Jul 200       17.Jul 200       11.Aug 200       21.Jul 200       11.Aug 200       22       Jul A00       31.Aug 200       22       Jul A00       31.Aug 200       21.Jul 200       11.Aug 200       21.Jul 200       11.Aug 200       22.Jul 200       21.Jul 200       13.Aug 200       22.Jul 200       23.Jul 200       2                                                                                                                                                                                                                                                                                                                                  | BH3M_0.1-0.2                 | SE208846.004                          |          | 13 Jul 2020 | 17 Jul 2020 | 10 Aug 2020    | 21 Jul 2020 | 10 Aug 2020  | 23 Jul 2020       |
| Bi3M2 A2-29       SE208964 007       LE204774       13, Jul 200       17, Jul 200       10, Aug 2020       21, Jul 200       11, Aug 2020       22         Bi3M, 0.3.6.5       SE20884 008       LE304774       14, Jul 200       17, Jul 200       11, Aug 2020       21, Jul 200       11, Aug 2020       22         Bi3M, 0.3.6.5       SE20884 001       LE304774       14, Jul 200       17, Jul 200       11, Aug 200       21, Jul 200       11, Aug 200       22         Bi3M, 0.3.6.5       SE20884 010       LE304774       14, Jul 200       17, Jul 200       11, Aug 200       22       Jul 300       13, Aug 200       22         Bi3M, 1.6.6       SE208846 014       LE304774       16, Jul 200       17, Jul 200       13, Aug 200       22       Jul 300       13, Aug 200       22         Bi3M, 1.6.6       SE208846 014       LE304774       16, Jul 200       17, Jul 200       13, Aug 200       22       Jul 300       24, Jul 300                                                                                                                                                                                                                                                                                                                                                              |                              | ÷                                     |          |             |             |                |             |              | 23 Jul 2020       |
| BH4L 03.0 5         SE20846.009         LE204774         14 Jul 2020         17 Jul 2020         11 Aug 2020         21 Jul 2020         11 Aug 2020         22 Jul 2020         13 Aug 2020         22 Jul 2020         23 Jul 2020         24 Jul 2020                                                                                                                                                                                                             |                              |                                       |          |             |             | -              |             |              | 23 Jul 2020       |
| BH44         1-1-5         SE20884.000         LB20H74         14.Jul 2020         17.Jul 2020         11 Aug 2020         21.Jul 2020         11 Aug 2020         22.Jul 2020         13 Aug 2020         22.Jul 2020         23.Jul 2020         23.Jul 2020         23.Jul 2020         23.Jul 2020         23.Jul 2020         24.Jul 202                                                                                                                                                                                                        |                              |                                       |          |             |             |                |             |              | 23 Jul 2020       |
| BH4M, 29.3.0         SE20886.010         L B204774         14 Jul 2020         17 Jul 2020         11 Aug 2020         21 Jul 2020         11 Aug 2020         22 Jul 2020         13 Aug 2020         22 Jul 2020         23 Jul 2020         23 Jul 2020         24 Jul 202                                                                                                                                                                                                               |                              | · · · · · · · · · · · · · · · · · · · | LB204774 | 14 Jul 2020 | 17 Jul 2020 | 11 Aug 2020    | 21 Jul 2020 | 11 Aug 2020  | 23 Jul 2020       |
| BH44, 49-9.0         SE20846 011         LB204774         14 Jul 2200         17 Jul 2200         11 Jug 2200         21 Jul 2200         11 Jug 2200         21 Jul 2200         11 Jug 2200         22 Jul 2200         21 Jul 2200         11 Jug 2200         22 Jul 2200         12 Jul 2200         12 Jul 2200         13 Jug 2200         22 Jul 2200         21 Jul 2200         13 Jug 2200         22 Jul 2200         21 Jul 2200         23 Jul 2200         21 Jul 2200                                                                                                                                                                                                            | BH4M_1.4-1.5                 | SE208846.009                          | LB204774 | 14 Jul 2020 | 17 Jul 2020 |                | 21 Jul 2020 | 11 Aug 2020  | 23 Jul 2020       |
| BH5M, 0.1-0.2         SE208846.012         LB204774         16 Jul 2020         17 Jul 2020         13 Aug 2020         21 Jul 2020         13 Aug 2020         21 Jul 2020         13 Aug 2020         22 Jul 2020         23 Jul 2020         22 Jul 2020         23 Jul 2020         22 Jul 2020                                                                                                                                                                                                          | BH4M_2.9-3.0                 |                                       |          | 14 Jul 2020 |             |                | 21 Jul 2020 |              | 23 Jul 2020       |
| BH5M, 1.5-1.6       SE20846.013       LB204774       16 Jul 2020       17 Jul 2020       13 Jug 2020       21 Jul 2020       13 Jug 2020       22         BH5M, 1.5-1.6       SE20844.0014       LB204774       16 Jul 2020       17 Jul 2020       13 Jug 2020       21 Jul 2020       13 Jug 2020       22         Sample Name       Sample No.       QC Ref       Sample No       Reserved       Extraction Due       Extracted       Analysis Due       A         BH2, 1-13       SE20846.001       LB204739       09 Jul 2020       17 Jul 2020       23 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH2, 1-17       SE20846.003       LB204739       09 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH3M, 0-7.0.8       SE20846.006       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH4M, 0-3.5       SE20846.0067       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH4M, 0-3.5       SE20846.0067       LB204739       14 Jul 2020       17 Jul 2020       28 Jul 2020       21 Jul 2020       28 Jul 2020       22       Jul 2020       22 Jul 2020<                                                                                                                                                                                                                                                                                                                                                                  | BH4M_4.9-5.0                 | SE208846.011                          | LB204774 | 14 Jul 2020 | 17 Jul 2020 | 11 Aug 2020    | 21 Jul 2020 | 11 Aug 2020  | 23 Jul 2020       |
| BH5M, 1.9-2.0         SE208846.014         LB204774         16 Jul 2020         17 Jul 2020         13 Jug 2020         21 Jul 2020         13 Jug 2020         22           Moltor         Sample Name         Sample No.         O C Ref         Sample Name         Extraction Due         Extraction Due <td></td> <td>SE208846.012</td> <td>LB204774</td> <td>16 Jul 2020</td> <td>17 Jul 2020</td> <td>13 Aug 2020</td> <td>21 Jul 2020</td> <td></td> <td>23 Jul 2020</td> |                              | SE208846.012                          | LB204774 | 16 Jul 2020 | 17 Jul 2020 | 13 Aug 2020    | 21 Jul 2020 |              | 23 Jul 2020       |
| Ubistric Content         Method: ME-(ALL)           Sample Name         Sample No.         QC Ref         Sample May 2020         TJ Jul 2020         ZJ Jul 2020 <thzj 2020<="" jul="" th="">         ZJ Jul 2020</thzj>                                                                                                                                                                                                    | BH5M_1.5-1.6                 |                                       | LB204774 | 16 Jul 2020 | 17 Jul 2020 | 13 Aug 2020    | 21 Jul 2020 | 13 Aug 2020  | 23 Jul 2020       |
| Sample Name         Sample No.         QC Ref         Sampled         Received         Extraction Due         Extracted         Analysis Due         A           BH2_01-0_2         SE20846.001         LE204739         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         26 Jul 2020         26 Jul 2020         26 Jul 2020         26 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         28 Jul 2020         22 Jul 2020         28 Jul 2020 <td< td=""><td>BH5M_1.9-2.0</td><td>SE208846.014</td><td>LB204774</td><td>16 Jul 2020</td><td>17 Jul 2020</td><td>13 Aug 2020</td><td>21 Jul 2020</td><td>13 Aug 2020</td><td>23 Jul 2020</td></td<>                            | BH5M_1.9-2.0                 | SE208846.014                          | LB204774 | 16 Jul 2020 | 17 Jul 2020 | 13 Aug 2020    | 21 Jul 2020 | 13 Aug 2020  | 23 Jul 2020       |
| BH2,01-0.2       SE20846.001       LB204739       09 Jul 2020       17 Jul 2020       23 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH2,151.3       SE20846.002       LB204739       09 Jul 2020       17 Jul 2020       23 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH30,01-02       SE20846.004       LB204739       09 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH30,01-02       SE20846.004       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH30,01-02       SE20846.005       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH30,03-05       SE20846.007       LB204739       13 Jul 2020       17 Jul 2020       28 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH40,14-15       SE20846.001       LB204739       14 Jul 2020       17 Jul 2020       28 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH40,15-0       SE20846.011       LB204739       14 Jul 2020       17 Jul 2020       28 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH40,15-16 <th< td=""><td>Moisture Content</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Method: I</td><td>ME-(AU)-[ENV]AN00</td></th<>                                                                                                                                                                                                                                            | Moisture Content             |                                       |          |             |             |                |             | Method: I    | ME-(AU)-[ENV]AN00 |
| BH2,12-1.3       SE20846.002       LB204739       09 Jul 2020       17 Jul 2020       23 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH2,1-6.7.       SE20846.003       LB204739       09 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH3M, 0.1-02       SE20846.005       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH3M, 0.7-0.8       SE20846.006       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH3M, 2.8-2       SE20846.006       LB204739       13 Jul 2020       17 Jul 2020       27 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH4M, 2.8-2       SE20846.007       LB204739       14 Jul 2020       17 Jul 2020       28 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH4M, 2.9-3.0       SE20846.010       LB204739       14 Jul 2020       17 Jul 2020       28 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH4M, 2.9-3.0       SE20846.011       LB204739       16 Jul 2020       17 Jul 2020       20 Jul 2020       21 Jul 2020       26 Jul 2020       22         BH4M, 2.9-                                                                                                                                                                                                                                                                                                                                                                          | Sample Name                  | Sample No.                            | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed          |
| BH2,16-17         SE208846.003         LB204739         0.9 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH3M, 0-10.2         SE208846.004         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22         Jul 2020         26 Jul 2020         26 Jul 2020         22         Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22                                                                                                                                                                                                                                                                                                  | BH2_0.1-0.2                  | SE208846.001                          | LB204739 | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH3M_0.1-0.2         SE208846.004         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH3M_0.7-0.8         SE208846.005         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH3M_0.7-0.8         SE208846.005         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_0.3-0.5         SE208846.008         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_0.3-0.5         SE208846.010         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_0.4-0.5         SE208846.011         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_0.4-0.5         SE208846.013         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.5-1.6         SE208846.013         LB204739         16 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                           | BH2_1.2-1.3                  | SE208846.002                          | LB204739 | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH3M_0.7-0.8         SE20886.005         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH3M_1.7-1.8         SE20886.006         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH3M_2.8-2.9         SE20886.006         LB204739         13 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_1.4-1.5         SE20886.009         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_1.4-1.5         SE20886.011         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_1.4-1.5         SE20886.011         LB204739         16 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.5-1.6         SE20886.012         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.5-2.0         SE20886.014         LB204739         16 Jul 2020         17 Jul 2020         <                                                                                                                                                                                                                                                                                                         | BH2_1.6-1.7                  | SE208846.003                          | LB204739 | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH3M_1.7.1.8         SE208846.006         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH3M_2.8-2.9         SE208846.007         LB204739         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_0.3-0.5         SE208846.009         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_2.9-3.0         SE208846.010         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_4.9-5.0         SE208846.011         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.5-1.6         SE208846.012         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.9-2.0         SE208846.013         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.9-2.0         SE208846.014         LB204738         09 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                           | BH3M_0.1-0.2                 | SE208846.004                          | LB204739 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH3M_2.8-2.9         SE20846.007         LB204739         13 Jul 2020         17 Jul 2020         21 Jul 2020         24 Jul 2020         22 Jul 2020         24 Jul 2020         22 Jul 2020         24 Jul 2020         25 Jul 2020         26 Jul 2020         22 Jul 2020         26 Jul 2020         26 Jul 2020                                                                                                                                                                                                            | BH3M_0.7-0.8                 | SE208846.005                          | LB204739 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH4M_0.3-0.5         SE20846.008         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_1.4.1-5         SE20846.009         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22         Jul 2020         26 Jul 2020         21 Jul 2020         26 Jul 2020         22         Jul 2020                                                                                                                                                                                                                                                                                                     | BH3M_1.7-1.8                 | SE208846.006                          | LB204739 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH4M_14-1.5         SE208846.009         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_2.9-3.0         SE208846.010         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         26 Jul 2020         22         30 Jul 2020         21 Jul 2020         21 Jul 2020         20 Jul 2020                                                                                                                                                                                                                                                                  | BH3M_2.8-2.9                 | SE208846.007                          | LB204739 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH4M_2.9-3.0         SE208846.010         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH4M_4.9-5.0         SE208846.011         LB204739         16 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_0.1-0.2         SE208846.012         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.5-1.6         SE208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.9-2.0         SE208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           CCPeeticides In Soll         Se208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         30 Aug 2020         22           Sample Name         Sample No.         QC Ref         Sample No         QC Ref         Sample No         QL Ref         Manaysis Due         A           BH2_1.1-1.3         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         2                                                                                                                                                                                                                                                                                                             | BH4M_0.3-0.5                 | SE208846.008                          | LB204739 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH4M_4.9-5.0         SE208846.011         LB204739         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_0.1-0.2         SE208846.012         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.5-1.6         SE208846.013         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.9-2.0         SE208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           CC Pesticides in Soll         SE208846.014         LB204738         16 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           Sez08846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.6.1.7         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020                                                                                                                                                                                                                                                                                                    | BH4M_1.4-1.5                 | SE208846.009                          | LB204739 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH5M_0.1-0.2         SE208846.012         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_0.1-0.2         SE208846.013         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BH5M_1.9-2.0         SE208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           OCP esticides in Soil         Sample Name         Sample No.         QC Ref         Sample Q         Received         Extraction Due         Extracted         Analysis Due         A           BH2_0.1-0.2         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.5-1.7         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         09 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.005         LB204738         13 Jul 2020                                                                                                                                                                                                                                                                                                             | BH4M_2.9-3.0                 | SE208846.010                          | LB204739 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BHSM_1.5-1.6         SE208846.013         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           BHSM_1.9-2.0         SE208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           OC Pesticides in Soil           Sample No.         QC Ref         Sampled         Received         Extraction Due         Extracted         Analysis Due         A           BH2_0.1-0.2         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.2-1.3         SE208846.002         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.6-1.7         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.006         LB204738         13 Jul 2                                                                                                                                                                                                                                                                                                                                    | BH4M_4.9-5.0                 | SE208846.011                          | LB204739 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH5M_1.9-2.0         SE208846.014         LB204739         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         26 Jul 2020         22           OC Pesticides in Soil           Sample No.         QC Ref         Sampled         Received         Extraction Due         Extracted         Analysis Due         A           BH2_0.1-0.2         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.2-1.3         SE208846.002         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3_0.7-0.8         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.007         LB204738         13 Jul 2                                                                                                                                                                                                                                                                                                                                    | BH5M_0.1-0.2                 | SE208846.012                          | LB204739 | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| OC Pesicides in Soll         Method: ME-(AU           Sample Name         Sample No.         QC Ref         Sampled         Received         Extraction Due         Extracted         Analysis Due         A           BH2_0.1-0.2         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.2-1.3         SE208846.002         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3_0.1-0.8         SE208846.005         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_1.7-1.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.009 <t< td=""><td>BH5M_1.5-1.6</td><td>SE208846.013</td><td>LB204739</td><td>16 Jul 2020</td><td>17 Jul 2020</td><td>30 Jul 2020</td><td>21 Jul 2020</td><td>26 Jul 2020</td><td>22 Jul 2020</td></t<>                                                                                                                         | BH5M_1.5-1.6                 | SE208846.013                          | LB204739 | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| Sample Name         Sample No.         QC Ref         Sampled         Received         Extraction Due         Extracted         Analysis Due         A           BH2_0.1-0.2         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.2-1.3         SE208846.002         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.6-1.7         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_1.7-1.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28                                                                                                                                                                                                                                                                                                              | BH5M_1.9-2.0                 | SE208846.014                          | LB204739 | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 26 Jul 2020  | 22 Jul 2020       |
| BH2_0.1-0.2         SE208846.001         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.2-1.3         SE208846.002         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.2-1.3         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3_0.7-0.8         SE208846.005         LB204738         09 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                               | OC Pesticides in Soil        |                                       |          |             |             |                |             | Method: I    | ME-(AU)-[ENV]AN42 |
| BH2_1.2-1.3         SE208846.002         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH2_1.6-1.7         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         09 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_1.7-1.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                             | Sample Name                  | Sample No.                            | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed          |
| BH2_1.6-1.7         SE208846.003         LB204738         09 Jul 2020         17 Jul 2020         23 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_1.7-1.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         13 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                            | BH2_0.1-0.2                  | SE208846.001                          | LB204738 | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH3M_0.7-0.8         SE208846.005         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_1.7-1.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.009         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                           | BH2_1.2-1.3                  | SE208846.002                          | LB204738 | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH3M_1.7.1.8         SE208846.006         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.009         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         14 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                           | BH2_1.6-1.7                  | SE208846.003                          | LB204738 | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH3M_2.8-2.9         SE208846.007         LB204738         13 Jul 2020         17 Jul 2020         27 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.009         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         16 Jul 2020         17 Jul 2020                                                                                                                                                                                                                                                                                                           | BH3M_0.7-0.8                 | SE208846.005                          | LB204738 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH4M_0.3-0.5         SE208846.008         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_1.4-1.5         SE208846.009         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_6.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         30 Aug 2020         22                                                                                                                                                                                                                                                                                                                                                                                                                | BH3M_1.7-1.8                 | SE208846.006                          | LB204738 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH4M_1.4-1.5         SE208846.009         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH4M_6.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         30 Aug 2020         22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BH3M_2.8-2.9                 | SE208846.007                          | LB204738 | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH4M_2.9-3.0         SE208846.010         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22 Jul 2020         30 Aug 2020                                                                                                                                                                                                           | BH4M_0.3-0.5                 | SE208846.008                          | LB204738 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH4M_4.9-5.0         SE208846.011         LB204738         14 Jul 2020         17 Jul 2020         28 Jul 2020         21 Jul 2020         30 Aug 2020         22           BH5M_0.1-0.2         SE208846.012         LB204738         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         30 Aug 2020         22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BH4M_1.4-1.5                 | SE208846.009                          | LB204738 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| BH5M_0.1-0.2         SE208846.012         LB204738         16 Jul 2020         17 Jul 2020         30 Jul 2020         21 Jul 2020         30 Aug 2020         23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BH4M_2.9-3.0                 | SE208846.010                          | LB204738 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BH4M_4.9-5.0                 | SE208846.011                          | LB204738 | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BH5M_0.1-0.2                 | SE208846.012                          | LB204738 | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
| DI JUI 2020 30 JUI 2020 21 JUI 2020 30 AUG 2020 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BH5M_1.5-1.6                 | SE208846.013                          | LB204738 | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020  | 23 Jul 2020       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              | SE208846.014                          |          |             |             |                |             |              | 23 Jul 2020       |



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.

| OP Pesticides in Soil                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                                                                                                                |                                                                                                                                                                      |                                                                                                                                                                                               | Method: N                                                                                                                                                                            | IE-(AU)-[ENV]AN4                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Name                                                                                                                                                                                                                                                                        | Sample No.                                                                                                                                                                                                                                                                                                   | QC Ref                                                                                                                                                                                              | Sampled                                                                                                                                                                                            | Received                                                                                                                                                                                                       | Extraction Due                                                                                                                                                       | Extracted                                                                                                                                                                                     | Analysis Due                                                                                                                                                                         | Analysed                                                                                                                                                                                           |
| BH2_0.1-0.2                                                                                                                                                                                                                                                                        | SE208846.001                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| BH2_1.2-1.3                                                                                                                                                                                                                                                                        | SE208846.002                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H2_1.6-1.7                                                                                                                                                                                                                                                                        | SE208846.003                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H3M_0.7-0.8                                                                                                                                                                                                                                                                       | SE208846.005                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H3M_1.7-1.8                                                                                                                                                                                                                                                                       | SE208846.006                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H3M_2.8-2.9                                                                                                                                                                                                                                                                       | SE208846.007                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M_0.3-0.5                                                                                                                                                                                                                                                                       | SE208846.008                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M_1.4-1.5                                                                                                                                                                                                                                                                       | SE208846.009                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M_2.9-3.0                                                                                                                                                                                                                                                                       | SE208846.010                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M_4.9-5.0                                                                                                                                                                                                                                                                       | SE208846.011                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H5M_0.1-0.2                                                                                                                                                                                                                                                                       | SE208846.012                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H5M_1.5-1.6                                                                                                                                                                                                                                                                       | SE208846.013                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| BH5M_1.9-2.0                                                                                                                                                                                                                                                                       | SE208846.014                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| AH (Polynuclear Aromatic                                                                                                                                                                                                                                                           | Hydrocarbons) in Soil                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                                                                                                                |                                                                                                                                                                      |                                                                                                                                                                                               | Method: M                                                                                                                                                                            | IE-(AU)-[ENV]AN                                                                                                                                                                                    |
| Sample Name                                                                                                                                                                                                                                                                        | Sample No.                                                                                                                                                                                                                                                                                                   | QC Ref                                                                                                                                                                                              | Sampled                                                                                                                                                                                            | Received                                                                                                                                                                                                       | Extraction Due                                                                                                                                                       | Extracted                                                                                                                                                                                     | Analysis Due                                                                                                                                                                         | Analysed                                                                                                                                                                                           |
| 3H2 0.1-0.2                                                                                                                                                                                                                                                                        | SE208846.001                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| BH2_1.2-1.3                                                                                                                                                                                                                                                                        | SE208846.002                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H2_1.6-1.7                                                                                                                                                                                                                                                                        | SE208846.003                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H3M_0.7-0.8                                                                                                                                                                                                                                                                       | SE208846.005                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H3M_1.7-1.8                                                                                                                                                                                                                                                                       | SE208846.006                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H3M_2.8-2.9                                                                                                                                                                                                                                                                       | SE208846.007                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M 0.3-0.5                                                                                                                                                                                                                                                                       | SE208846.008                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M_1.4-1.5                                                                                                                                                                                                                                                                       | SE208846.009                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H4M_2.9-3.0                                                                                                                                                                                                                                                                       | SE208846.010                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 8H4M_4.9-5.0                                                                                                                                                                                                                                                                       | SE208846.011                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 8H5M_0.1-0.2                                                                                                                                                                                                                                                                       | SE208846.012                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| BH5M_1.5-1.6                                                                                                                                                                                                                                                                       | SE208846.012                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| 3H5M_1.9-2.0                                                                                                                                                                                                                                                                       | SE208846.014                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 24 Jul 2020                                                                                                                                                                                        |
| CBs in Soil                                                                                                                                                                                                                                                                        | 02200040.014                                                                                                                                                                                                                                                                                                 | 20204700                                                                                                                                                                                            | 10 001 2020                                                                                                                                                                                        | 17 0012020                                                                                                                                                                                                     | 00 001 2020                                                                                                                                                          | 210012020                                                                                                                                                                                     |                                                                                                                                                                                      | IE-(AU)-[ENV]AN4                                                                                                                                                                                   |
| Sample Name                                                                                                                                                                                                                                                                        | Sample No.                                                                                                                                                                                                                                                                                                   | QC Ref                                                                                                                                                                                              | Sampled                                                                                                                                                                                            | Received                                                                                                                                                                                                       | Extraction Due                                                                                                                                                       | Extracted                                                                                                                                                                                     | Analysis Due                                                                                                                                                                         | Analysed                                                                                                                                                                                           |
| 3H2 0.1-0.2                                                                                                                                                                                                                                                                        | SE208846.001                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| _                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                                                                                                                |                                                                                                                                                                      |                                                                                                                                                                                               |                                                                                                                                                                                      |                                                                                                                                                                                                    |
| 3H2_1.2-1.3                                                                                                                                                                                                                                                                        | SE208846.002                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H2_1.6-1.7                                                                                                                                                                                                                                                                        | SE208846.003                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 09 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 23 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H3M_0.7-0.8                                                                                                                                                                                                                                                                       | SE208846.005                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H3M_1.7-1.8                                                                                                                                                                                                                                                                       | SE208846.006                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H3M_2.8-2.9                                                                                                                                                                                                                                                                       | SE208846.007                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 13 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 27 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H4M_0.3-0.5                                                                                                                                                                                                                                                                       | SE208846.008                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H4M_1.4-1.5                                                                                                                                                                                                                                                                       | SE208846.009                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H4M_2.9-3.0                                                                                                                                                                                                                                                                       | SE208846.010                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H4M_4.9-5.0                                                                                                                                                                                                                                                                       | SE208846.011                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 14 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 28 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| 3H5M_0.1-0.2                                                                                                                                                                                                                                                                       | SE208846.012                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            |                                                                                                                                                                                                    |                                                                                                                                                                                                                | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                                               |                                                                                                                                                                                      |                                                                                                                                                                                                    |
| _                                                                                                                                                                                                                                                                                  | SE208846.013                                                                                                                                                                                                                                                                                                 | LB204738                                                                                                                                                                                            | 16 Jul 2020                                                                                                                                                                                        | 17 Jul 2020                                                                                                                                                                                                    | 30 Jul 2020                                                                                                                                                          | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020                                                                                                                                                                          | 23 Jul 2020                                                                                                                                                                                        |
| _                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     |                                                                                                                                                                                                    |                                                                                                                                                                                                                |                                                                                                                                                                      | 21 Jul 2020<br>21 Jul 2020                                                                                                                                                                    | 30 Aug 2020<br>30 Aug 2020                                                                                                                                                           | 23 Jul 2020<br>23 Jul 2020                                                                                                                                                                         |
| BH5M_1.9-2.0                                                                                                                                                                                                                                                                       | SE208846.013<br>SE208846.014                                                                                                                                                                                                                                                                                 | LB204738<br>LB204738<br>terials by ICPOES                                                                                                                                                           | 16 Jul 2020<br>16 Jul 2020                                                                                                                                                                         | 17 Jul 2020<br>17 Jul 2020                                                                                                                                                                                     | 30 Jul 2020<br>30 Jul 2020                                                                                                                                           | 21 Jul 2020                                                                                                                                                                                   | 30 Aug 2020<br>Method: ME-(AU)                                                                                                                                                       | 23 Jul 2020<br>- <b>[ENV]AN040/AN</b>                                                                                                                                                              |
| BH5M_1.9-2.0<br>Dtal Recoverable Element<br>Sample Name                                                                                                                                                                                                                            | SE208846.013<br>SE208846.014<br>s in Soil/Waste Solids/Ma<br>Sample No.                                                                                                                                                                                                                                      | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref                                                                                                                                                 | 16 Jul 2020<br>16 Jul 2020<br>Sampled                                                                                                                                                              | 17 Jul 2020<br>17 Jul 2020<br>Received                                                                                                                                                                         | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due                                                                                                                         | 21 Jul 2020<br>Extracted                                                                                                                                                                      | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due                                                                                                                                       | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed                                                                                                                                                          |
| 3H5M_1.9-2.0<br>otal Recoverable Element<br>Sample Name<br>3H2_0.1-0.2                                                                                                                                                                                                             | SE208846.013<br>SE208846.014<br>s in Soil/Waste Solids/Mat<br>Sample No.<br>SE208846.001                                                                                                                                                                                                                     | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772                                                                                                                                     | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020                                                                                                                                               | 17 Jul 2020<br>17 Jul 2020<br>Received<br>17 Jul 2020                                                                                                                                                          | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021                                                                                                          | 21 Jul 2020<br>Extracted<br>21 Jul 2020                                                                                                                                                       | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021                                                                                                                        | 23 Jul 2020<br>- <b>[ENV]AN040/AN</b><br>Analysed<br>22 Jul 2020                                                                                                                                   |
| ant5M_1.9-2.0<br>tal Recoverable Element<br>Sample Name<br>3H2_0.1-0.2<br>3H2_1.2-1.3                                                                                                                                                                                              | SE208846.013           SE208846.014           s In Soll/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002                                                                                                                                                                  | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772                                                                                                                         | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020                                                                                                                                | 17 Jul 2020<br>17 Jul 2020<br>Received<br>17 Jul 2020<br>17 Jul 2020                                                                                                                                           | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021                                                                                           | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020                                                                                                                                        | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021                                                                                                         | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020                                                                                                                            |
| 3H5M_1.9-2.0<br>tal Recoverable Element<br>Sample Name<br>3H2_0.1-0.2<br>3H2_1.2-1.3<br>3H2_1.6-1.7                                                                                                                                                                                | SE208846.013           SE208846.014           s In Soil/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003                                                                                                                                           | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772                                                                                                             | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020                                                                                                  | 17 Jul 2020<br>17 Jul 2020<br><b>Received</b><br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020                                                                                                      | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021                                                                            | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020                                                                                                          | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021                                                                                          | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020                                                                                                             |
| H5M_1.9-2.0<br>tal Recoverable Element<br>sample Name<br>H2_0.1-0.2<br>H2_1.2-1.3<br>H2_1.6-1.7<br>H3M_0.1-0.2                                                                                                                                                                     | SE208846.013           SE208846.014           s In Soil/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004                                                                                                                    | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772                                                                                                 | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020                                                                                   | 17 Jul 2020<br>17 Jul 2020<br><b>Received</b><br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020                                                                                       | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021                                                             | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020                                                                                           | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021                                                                           | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020                                                                               |
| H5M_1.9-2.0<br>tal Recoverable Element<br>Sample Name<br>SH2_0.1-0.2<br>SH2_1.2-1.3<br>SH2_1.6-1.7<br>SH3M_0.1-0.2<br>SH3M_0.7-0.8                                                                                                                                                 | SE208846.013           SE208846.014           s In Soil/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004           SE208846.005                                                                                             | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772                                                                                     | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020                                                                    | 17 Jul 2020<br>17 Jul 2020<br>Received<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020                                                                               | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                                              | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020                                                                            | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                                                            | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020                                                                |
| 3H5M_1.5-1.6<br>3H5M_1.9-2.0<br>otal Recoverable Element<br>Sample Name<br>3H2_0.1-0.2<br>3H2_1.2-1.3<br>3H2_1.6-1.7<br>3H3M_0.1-0.2<br>3H3M_0.7-0.8<br>3H3M_1.7-1.8                                                                                                               | SE208846.013           SE208846.014           s In Soil/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004                                                                                                                    | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772                                                                                                 | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020                                                                                   | 17 Jul 2020<br>17 Jul 2020<br><b>Received</b><br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020                                                                                       | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021                                                             | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020                                                                                           | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021                                                                           | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020                                                                               |
| H5M_1.9-2.0<br>tal Recoverable Element<br>Sample Name<br>H42_0.1-0.2<br>H42_1.2-1.3<br>H2_1.6-1.7<br>H3M_0.1-0.2<br>H3M_0.1-0.2<br>H3M_0.7-0.8<br>H3M_1.7-1.8                                                                                                                      | SE208846.013           SE208846.014           s In Soil/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004           SE208846.005                                                                                             | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772                                                                                     | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020                                                                    | 17 Jul 2020<br>17 Jul 2020<br>Received<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020                                                                               | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                                              | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020<br>21 Jul 2020                                                                            | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                                                            | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020                                                                |
| SH5M_1.9-2.0           Otal Recoverable Element           Sample Name           BH2_0.1-0.2           BH2_1.2-1.3           BH2_1.6-1.7           BH3M_0.1-0.2           BH3M_0.1-0.2           BH3M_0.1-0.2           BH3M_0.7-0.8           BH3M_0.7-0.8           BH3M_0.7-0.8  | SE208846.013           SE208846.014           s in Soli/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004           SE208846.005           SE208846.006                                                                      | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772                                                                         | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020                                                     | 17 Jul 2020<br>17 Jul 2020<br><b>Received</b><br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020<br>17 Jul 2020                                                         | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                                              | 21 Jui 2020<br>Extracted<br>21 Jui 2020<br>21 Jui 2020                                              | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                                             | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020<br>22 Jul 2020                                                 |
| SH5M_1.9-2.0           Datal Recoverable Element           Sample Name           SH2_0.1-0.2           SH2_1.2-1.3           SH2_1.6-1.7           SH3M_0.1-0.2           SH3M_0.7-0.8           SH3M_1.7-1.8           SH3M_0.3-0.5                                               | SE208846.013           SE208846.014           s in Soll/Waste Solids/Mar           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004           SE208846.005           SE208846.006           SE208846.007                                               | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772                                                 | 16 Jul 2020<br>16 Jul 2020<br>Sampled<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020                                      | 17 Jul 2020<br>17 Jul 2020<br><b>Received</b><br>17 Jul 2020<br>17 Jul 2020                                          | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                               | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020                                              | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021                              | 23 Jul 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jul 2020<br>22 Jul 2020                                  |
| BH5M_1.9-2.0           Datal Recoverable Element           Sample Name           BH2_0.1-0.2           BH2_1.2-1.3           BH2_1.6-1.7           BH3M_0.1-0.2           BH3M_0.7-0.8           BH3M_1.7-1.8           BH3M_2.8-2.9           BH4M_0.3-0.5           BH4M_1.4-1.5 | SE208846.013           SE208846.014           s in Soll/Waste Solids/Mat           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004           SE208846.005           SE208846.006           SE208846.007           SE208846.008                        | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772                         | 16 Jul 2020<br>16 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>14 Jul 2020                   | 17 Jul 2020<br>17 Jul 2020<br><b>Received</b><br>17 Jul 2020<br>17 Jul 2020                           | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>10 Jan 2021                | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020                               | 30 Aug 2020<br>Method: ME-(AU)<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>10 Jan 2021                               | 23 Jui 2020<br>-[ENV]AN040/AN<br>Analysed<br>22 Jui 2020<br>22 Jui 2020                   |
| 3H5M_1.9-2.0<br>otal Recoverable Element<br>Sample Name<br>3H2_0.1-0.2<br>3H2_1.2-1.3<br>3H2_1.6-1.7<br>3H3M_0.1-0.2<br>3H3M_0.7-0.8                                                                                                                                               | SE208846.013           SE208846.014           s in Soll/Waste Solids/Mar           Sample No.           SE208846.001           SE208846.002           SE208846.003           SE208846.004           SE208846.005           SE208846.006           SE208846.007           SE208846.008           SE208846.009 | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772             | 16 Jul 2020<br>16 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>14 Jul 2020<br>14 Jul 2020                   | 17 Jul 2020<br>17 Jul 2020                | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>10 Jan 2021<br>10 Jan 2021 | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020                | 30 Aug 2020<br>Method: ME-(AU)<br>Analysis Due<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>10 Jan 2021<br>10 Jan 2021               | 23 Jul 2020<br>-[ENV]AN040/AN<br>22 Jul 2020<br>22 Jul 2020                |
| BH5M_1.9-2.0           Datal Recoverable Element           Sample Name           BH2_0.1-0.2           BH2_1.2-1.3           BH2_1.6-1.7           BH3M_0.1-0.2           BH3M_0.7-0.8           BH3M_1.7-1.8           BH3M_2.8-2.9           BH4M_0.3-0.5           BH4M_1.4-1.5 | SE208846.013<br>SE208846.014<br>s in Soll/Waste Solids/Mar<br>Sample No.<br>SE208846.001<br>SE208846.002<br>SE208846.003<br>SE208846.004<br>SE208846.006<br>SE208846.006<br>SE208846.007<br>SE208846.008<br>SE208846.009<br>SE208846.010                                                                     | LB204738<br>LB204738<br>terials by ICPOES<br>QC Ref<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772<br>LB204772 | 16 Jul 2020<br>16 Jul 2020<br><b>Sampled</b><br>09 Jul 2020<br>09 Jul 2020<br>09 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>13 Jul 2020<br>14 Jul 2020<br>14 Jul 2020<br>14 Jul 2020 | 17 Jul 2020<br>17 Jul 2020 | 30 Jul 2020<br>30 Jul 2020<br>Extraction Due<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>10 Jan 2021<br>10 Jan 2021 | 21 Jul 2020<br>Extracted<br>21 Jul 2020<br>21 Jul 2020 | 30 Aug 2020<br>Method: ME-(AU)<br>05 Jan 2021<br>05 Jan 2021<br>05 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>09 Jan 2021<br>10 Jan 2021<br>10 Jan 2021<br>10 Jan 2021 | 23 Jul 2020<br>-[ENV]AN040/AN<br>22 Jul 2020<br>22 Jul 2020 |



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.

| Total Recoverable Eleme   | nts in Soil/Waste Solids/Ma | terials by ICPOES (o | continued)  |             |                |             | Method: ME-(AU | )-[ENV]AN040/AN32 |
|---------------------------|-----------------------------|----------------------|-------------|-------------|----------------|-------------|----------------|-------------------|
| Sample Name               | Sample No.                  | QC Ref               | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| BH5M_1.9-2.0              | SE208846.014                | LB204772             | 16 Jul 2020 | 17 Jul 2020 | 12 Jan 2021    | 21 Jul 2020 | 12 Jan 2021    | 22 Jul 2020       |
| RH (Total Recoverable H   | lydrocarbons) in Soil       |                      |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN40 |
| Sample Name               | Sample No.                  | QC Ref               | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| BH2_0.1-0.2               | SE208846.001                | LB204738             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH2_1.2-1.3               | SE208846.002                | LB204738             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH2_1.6-1.7               | SE208846.003                | LB204738             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH3M_0.7-0.8              | SE208846.005                | LB204738             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_1.7-1.8              | SE208846.006                | LB204738             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_2.8-2.9              | SE208846.007                | LB204738             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH4M_0.3-0.5              | SE208846.008                | LB204738             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH4M_1.4-1.5              | SE208846.009                | LB204738             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH4M_2.9-3.0              | SE208846.010                | LB204738             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH4M_4.9-5.0              | SE208846.011                | LB204738             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH5M_0.1-0.2              | SE208846.012                | LB204738             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 22 Jul 2020       |
| BH5M_1.5-1.6              | SE208846.013                | LB204738             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_1.9-2.0              | SE208846.014                | LB204738             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| /OC's in Soil             |                             |                      |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN43 |
| Sample Name               | Sample No.                  | QC Ref               | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| BH2_0.1-0.2               | SE208846.001                | LB204737             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH2_1.2-1.3               | SE208846.002                | LB204737             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH2_1.6-1.7               | SE208846.003                | LB204737             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_0.7-0.8              | SE208846.005                | LB204737             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_1.7-1.8              | SE208846.006                | LB204737             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_2.8-2.9              | SE208846.007                | LB204737             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_0.3-0.5              | SE208846.008                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_1.4-1.5              | SE208846.009                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_2.9-3.0              | SE208846.010                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_4.9-5.0              | SE208846.011                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_0.1-0.2              | SE208846.012                | LB204737             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_1.5-1.6              | SE208846.013                | LB204737             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_1.9-2.0              | SE208846.014                | LB204737             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| /olatile Petroleum Hydrod | arbons in Soil              |                      |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN43 |
| Sample Name               | Sample No.                  | QC Ref               | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed          |
| BH2_0.1-0.2               | SE208846.001                | LB204737             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH2_1.2-1.3               | SE208846.002                | LB204737             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH2_1.6-1.7               | SE208846.003                | LB204737             | 09 Jul 2020 | 17 Jul 2020 | 23 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_0.7-0.8              | SE208846.005                | LB204737             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_1.7-1.8              | SE208846.006                | LB204737             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH3M_2.8-2.9              | SE208846.007                | LB204737             | 13 Jul 2020 | 17 Jul 2020 | 27 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_0.3-0.5              | SE208846.008                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_1.4-1.5              | SE208846.009                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_2.9-3.0              | SE208846.010                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH4M_4.9-5.0              | SE208846.011                | LB204737             | 14 Jul 2020 | 17 Jul 2020 | 28 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_0.1-0.2              | SE208846.012                | LB204737             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_1.5-1.6              | SE208846.013                | LB204737             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |
| BH5M_1.9-2.0              | SE208846.014                | LB204737             | 16 Jul 2020 | 17 Jul 2020 | 30 Jul 2020    | 21 Jul 2020 | 30 Aug 2020    | 23 Jul 2020       |



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

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

#### OC Pesticides in Soil Method: ME-(AU)-[ENV]AN420 Parameter Sample Nan Sample Num Criteria Recovery % Units Tetrachloro-m-xylene (TCMX) (Surrogate) BH2 0.1-0.2 SE208846.001 % 60 - 130% 89 BH2\_1.6-1.7 SE208846.003 60 - 130% 95 % BH3M\_0.7-0.8 SE208846.005 89 % 60 - 130% BH3M 1.7-1.8 SE208846.006 % 60 - 130% 91 BH3M\_2.8-2.9 SE208846.007 60 - 130% 93 % BH4M\_0.3-0.5 SE208846.008 60 - 130% 89 % BH4M 2 9-3 0 SE208846 010 % 60 - 130% 92 BH5M\_0.1-0.2 SE208846.012 60 - 130% % 88 BH5M\_1.9-2.0 SE208846.014 60 - 130% 95 % OP Pesticides in Soil Method: ME-(AU)-IENVIAN420 Recovery % Parameter Sample Name Sample Number Units Criteria 2-fluorobiphenyl (Surrogate) BH2 0.1-0.2 SE208846.001 60 - 130% 85 % BH2 1.6-1.7 SE208846.003 60 - 130% % 83 BH3M\_0.7-0.8 SE208846.005 % 60 - 130% 80 BH3M 1.7-1.8 SE208846.006 % 60 - 130% 85 BH3M 2.8-2.9 SE208846.007 % 60 - 130% 80 BH4M 0.3-0.5 SE208846.008 % 60 - 130% 84 BH4M 2.9-3.0 SE208846.010 % 60 - 130% 81 BH5M 0.1-0.2 SE208846.012 % 60 - 130% 84 BH5M\_1.9-2.0 SE208846.014 60 - 130% 80 % d14-p-terphenyl (Surrogate) BH2\_0.1-0.2 SE208846.001 % 60 - 130% 89 SE208846.003 BH2 1.6-1.7 60 - 130% % 83 BH3M 0.7-0.8 SE208846 005 % 60 - 130% 84 BH3M 1.7-1.8 SE208846.006 % 60 - 130% 91 BH3M 2.8-2.9 SE208846.007 60 - 130% % 88 BH4M 0.3-0.5 SE208846.008 % 60 - 130% 80 BH4M 2.9-3.0 SE208846.010 % 60 - 130% 87 SE208846.012 BH5M 0.1-0.2 60 - 130% % 87 BH5M\_1.9-2.0 SE208846.014 % 60 - 130% 86 PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420 Parameter Sample Name Sample Numb Units Criteria Recovery % 2-fluorobiphenyl (Surrogate) BH2 0.1-0.2 SE208846.001 % 70 - 130% 85 BH2 1.2-1.3 SE208846.002 70 - 130% 86 % BH2\_1.6-1.7 SE208846.003 70 - 130% % 83 BH3M 0.7-0.8 SE208846.005 % 70 - 130% 80 BH3M\_1.7-1.8 SE208846.006 70 - 130% 85 % BH3M\_2.8-2.9 SE208846.007 70 - 130% 80 % BH4M 0.3-0.5 SE208846.008 % 70 - 130% 84 BH4M\_1.4-1.5 SE208846.009 70 - 130% 85 % BH4M\_2.9-3.0 SE208846.010 70 - 130% % 81 BH4M 4.9-5.0 SE208846.011 % 70 - 130% 78 SE208846.012 84 BH5M\_0.1-0.2 % 70 - 130% BH5M\_1.5-1.6 SE208846.013 70 - 130% 80 % BH5M 1.9-2.0 SE208846.014 % 70 - 130% 80 d14-p-terphenyl (Surrogate) BH2 0.1-0.2 SE208846.001 70 - 130% 89 % BH2\_1.2-1.3 SE208846.002 70 - 130% 89 % BH2 1.6-1.7 SE208846.003 % 70 - 130% 83 BH3M\_0.7-0.8 SE208846.005 70 - 130% 84 % BH3M\_1.7-1.8 SE208846.006 % 70 - 130% 91 BH3M 2.8-2.9 SE208846.007 % 70 - 130% 88 BH4M\_0.3-0.5 SE208846.008 89 % 70 - 130% BH4M\_1.4-1.5 SE208846.009 70 - 130% 82 % BH4M 2.9-3.0 SE208846.010 % 70 - 130% 87 BH4M\_4.9-5.0 SE208846.011 % 70 - 130% 86 BH5M\_0.1-0.2 SE208846.012 70 - 130% 87 % BH5M 1.5-1.6 SE208846.013 % 70 - 130% 85 BH5M\_1.9-2.0 SE208846.014 % 70 - 130% 86 BH2 0.1-0.2 SE208846.001 d5-nitrobenzene (Surrogate) % 70 - 130% 84 BH2 1.2-1.3 SE208846.002 % 70 - 130% 86 BH2\_1.6-1.7 SE208846.003 70 - 130% % 86



## SE208846 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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

## Method: ME-(AU)-[ENV]AN42

| PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) |              |               |       | Method: M | E-(AU)-[ENV]AN4 |
|-------------------------------------------------------------|--------------|---------------|-------|-----------|-----------------|
| Parameter                                                   | Sample Name  | Sample Number | Units | Criteria  | Recovery %      |
| d5-nitrobenzene (Surrogate)                                 | BH3M_0.7-0.8 | SE208846.005  | %     | 70 - 130% | 80              |
|                                                             | BH3M_1.7-1.8 | SE208846.006  | %     | 70 - 130% | 82              |
|                                                             | BH3M_2.8-2.9 | SE208846.007  | %     | 70 - 130% | 83              |
|                                                             | BH4M_0.3-0.5 | SE208846.008  | %     | 70 - 130% | 82              |
|                                                             | BH4M_1.4-1.5 | SE208846.009  | %     | 70 - 130% | 78              |
|                                                             | BH4M_2.9-3.0 | SE208846.010  | %     | 70 - 130% | 79              |
|                                                             | BH4M_4.9-5.0 | SE208846.011  | %     | 70 - 130% | 79              |
|                                                             | BH5M_0.1-0.2 | SE208846.012  | %     | 70 - 130% | 77              |
|                                                             | BH5M_1.5-1.6 | SE208846.013  | %     | 70 - 130% | 80              |
|                                                             | BH5M_1.9-2.0 | SE208846.014  | %     | 70 - 130% | 78              |
| CBs in Soll                                                 |              |               |       | Method: M | E-(AU)-[ENV]AN4 |
| Parameter                                                   | Sample Name  | Sample Number | Units | Criteria  | Recovery %      |
| Tetrachloro-m-xylene (TCMX) (Surrogate)                     | BH2_0.1-0.2  | SE208846.001  | %     | 60 - 130% | 89              |
|                                                             | BH2_1.6-1.7  | SE208846.003  | %     | 60 - 130% | 95              |
|                                                             | BH3M_0.7-0.8 | SE208846.005  | %     | 60 - 130% | 89              |
|                                                             | BH3M_1.7-1.8 | SE208846.006  | %     | 60 - 130% | 91              |
|                                                             | BH3M_2.8-2.9 | SE208846.007  | %     | 60 - 130% | 93              |
|                                                             | BH4M_0.3-0.5 | SE208846.008  | %     | 60 - 130% | 89              |
|                                                             | BH4M_2.9-3.0 | SE208846.010  | %     | 60 - 130% | 92              |
|                                                             | BH5M_0.1-0.2 | SE208846.012  | %     | 60 - 130% | 88              |
|                                                             | BH5M_1.9-2.0 | SE208846.014  | %     | 60 - 130% | 95              |
| DC's in Soil                                                |              |               |       | Method: M | E-(AU)-[ENV]AN  |
| arameter                                                    | Sample Name  | Sample Number | Units | Criteria  | Recovery %      |
| Bromofluorobenzene (Surrogate)                              | BH2_0.1-0.2  | SE208846.001  | %     | 60 - 130% | 78              |
|                                                             | BH2_1.2-1.3  | SE208846.002  | %     | 60 - 130% | 71              |
|                                                             | BH2_1.6-1.7  | SE208846.003  | %     | 60 - 130% | 85              |
|                                                             | BH3M_0.7-0.8 | SE208846.005  | %     | 60 - 130% | 75              |
|                                                             | BH3M_1.7-1.8 | SE208846.006  | %     | 60 - 130% | 87              |
|                                                             | BH3M_2.8-2.9 | SE208846.007  | %     | 60 - 130% | 79              |
|                                                             | BH4M_0.3-0.5 | SE208846.008  | %     | 60 - 130% | 78              |
|                                                             | BH4M_1.4-1.5 | SE208846.009  | %     | 60 - 130% | 77              |
|                                                             | BH4M_2.9-3.0 | SE208846.010  | %     | 60 - 130% | 77              |
|                                                             | BH4M_4.9-5.0 | SE208846.011  | %     | 60 - 130% | 75              |
|                                                             | BH5M_0.1-0.2 | SE208846.012  | %     | 60 - 130% | 76              |
|                                                             | BH5M_1.5-1.6 | SE208846.013  | %     | 60 - 130% | 82              |
|                                                             | BH5M_1.9-2.0 | SE208846.014  | %     | 60 - 130% | 74              |
| d4-1,2-dichloroethane (Surrogate)                           | BH2_0.1-0.2  | SE208846.001  | %     | 60 - 130% | 78              |
|                                                             | BH2_1.2-1.3  | SE208846.002  | %     | 60 - 130% | 71              |
|                                                             |              |               |       |           |                 |

BH2\_1.6-1.7

BH3M\_0.7-0.8

BH3M 1.7-1.8

BH3M\_2.8-2.9

BH4M\_0.3-0.5

BH4M 1.4-1.5

BH4M\_2.9-3.0

BH4M\_4.9-5.0

BH5M 0.1-0.2

BH5M\_1.5-1.6

BH5M\_1.9-2.0

BH2 0.1-0.2

BH2\_1.2-1.3

BH2\_1.6-1.7

BH3M 0.7-0.8

BH3M\_1.7-1.8

BH3M\_2.8-2.9

SE208846.003

SE208846.005

SE208846.006

SE208846.007

SE208846.008

SE208846.009

SE208846.010

SE208846.011

SE208846.012

SE208846.013

SE208846.014

SE208846.001

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d8-toluene (Surrogate)



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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### VOC's in Soil (continued)

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

| Parameter                              | Sample Name  | Sample Number | Units | Criteria  | Recovery %      |
|----------------------------------------|--------------|---------------|-------|-----------|-----------------|
| d8-toluene (Surrogate)                 | BH5M_1.5-1.6 | SE208846.013  | %     | 60 - 130% | 76              |
|                                        | BH5M_1.9-2.0 | SE208846.014  | %     | 60 - 130% | 75              |
| olatile Petroleum Hydrocarbons in Soil |              |               |       | Method: M | e-(au)-[env]an4 |
| Parameter                              | Sample Name  | Sample Number | Units | Criteria  | Recovery %      |
| Bromofluorobenzene (Surrogate)         | BH2_0.1-0.2  | SE208846.001  | %     | 60 - 130% | 78              |
|                                        | BH2_1.2-1.3  | SE208846.002  | %     | 60 - 130% | 71              |
|                                        | BH2_1.6-1.7  | SE208846.003  | %     | 60 - 130% | 85              |
|                                        | BH3M_0.7-0.8 | SE208846.005  | %     | 60 - 130% | 75              |
|                                        | BH3M_1.7-1.8 | SE208846.006  | %     | 60 - 130% | 87              |
|                                        | BH3M_2.8-2.9 | SE208846.007  | %     | 60 - 130% | 79              |
|                                        | BH4M_0.3-0.5 | SE208846.008  | %     | 60 - 130% | 78              |
|                                        | BH4M_1.4-1.5 | SE208846.009  | %     | 60 - 130% | 77              |
|                                        | BH4M_2.9-3.0 | SE208846.010  | %     | 60 - 130% | 77              |
|                                        | BH4M_4.9-5.0 | SE208846.011  | %     | 60 - 130% | 75              |
|                                        | BH5M_0.1-0.2 | SE208846.012  | %     | 60 - 130% | 76              |
|                                        | BH5M_1.5-1.6 | SE208846.013  | %     | 60 - 130% | 82              |
|                                        | BH5M_1.9-2.0 | SE208846.014  | %     | 60 - 130% | 74              |
| d4-1,2-dichloroethane (Surrogate)      | BH2_0.1-0.2  | SE208846.001  | %     | 60 - 130% | 78              |
|                                        | BH2_1.2-1.3  | SE208846.002  | %     | 60 - 130% | 71              |
|                                        | BH2_1.6-1.7  | SE208846.003  | %     | 60 - 130% | 79              |
|                                        | BH3M_0.7-0.8 | SE208846.005  | %     | 60 - 130% | 79              |
|                                        | BH3M_1.7-1.8 | SE208846.006  | %     | 60 - 130% | 82              |
|                                        | BH3M_2.8-2.9 | SE208846.007  | %     | 60 - 130% | 78              |
|                                        | BH4M_0.3-0.5 | SE208846.008  | %     | 60 - 130% | 87              |
|                                        | BH4M_1.4-1.5 | SE208846.009  | %     | 60 - 130% | 84              |
|                                        | BH4M_2.9-3.0 | SE208846.010  | %     | 60 - 130% | 76              |
|                                        | BH4M_4.9-5.0 | SE208846.011  | %     | 60 - 130% | 81              |
|                                        | BH5M_0.1-0.2 | SE208846.012  | %     | 60 - 130% | 77              |
|                                        | BH5M_1.5-1.6 | SE208846.013  | %     | 60 - 130% | 79              |
|                                        | BH5M_1.9-2.0 | SE208846.014  | %     | 60 - 130% | 77              |
| d8-toluene (Surrogate)                 | BH2_0.1-0.2  | SE208846.001  | %     | 60 - 130% | 72              |
|                                        | BH2_1.2-1.3  | SE208846.002  | %     | 60 - 130% | 61              |
|                                        | BH2_1.6-1.7  | SE208846.003  | %     | 60 - 130% | 75              |
|                                        | BH3M_0.7-0.8 | SE208846.005  | %     | 60 - 130% | 71              |
|                                        | BH3M_1.7-1.8 | SE208846.006  | %     | 60 - 130% | 74              |
|                                        | BH3M_2.8-2.9 | SE208846.007  | %     | 60 - 130% | 71              |
|                                        | BH4M_0.3-0.5 | SE208846.008  | %     | 60 - 130% | 76              |
|                                        | BH4M_1.4-1.5 | SE208846.009  | %     | 60 - 130% | 77              |
|                                        | BH4M_2.9-3.0 | SE208846.010  | %     | 60 - 130% | 74              |
|                                        | BH4M_4.9-5.0 | SE208846.011  | %     | 60 - 130% | 75              |
|                                        | BH5M_0.1-0.2 | SE208846.012  | %     | 60 - 130% | 74              |
|                                        | BH5M_1.5-1.6 | SE208846.013  | %     | 60 - 130% | 76              |
|                                        | BH5M_1.9-2.0 | SE208846.014  | %     | 60 - 130% | 75              |



## **METHOD BLANKS**

## SE208846 R0

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

| Mercury in Soil |           |       | Metho | od: ME-(AU)-[ENV]AN312 |
|-----------------|-----------|-------|-------|------------------------|
| Sample Number   | Parameter | Units | LOR   | Result                 |
| LB204774.001    | Mercury   | mg/kg | 0.05  | <0.05                  |

## OC Pesticides in Soil

| C Pesticides in Soll |            |                                         |       | Meth | od: ME-(AU)-[ENV]AN |
|----------------------|------------|-----------------------------------------|-------|------|---------------------|
| ample Number         |            | Parameter                               | Units | LOR  | Result              |
| B204738.001          |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1  | <0.1                |
|                      |            | Alpha BHC                               | mg/kg | 0.1  | <0.1                |
|                      |            | Lindane                                 | mg/kg | 0.1  | <0.1                |
|                      |            | Heptachlor                              | mg/kg | 0.1  | <0.1                |
|                      |            | Aldrin                                  | mg/kg | 0.1  | <0.1                |
|                      |            | Beta BHC                                | mg/kg | 0.1  | <0.1                |
|                      |            | Delta BHC                               | mg/kg | 0.1  | <0.1                |
|                      |            | Heptachlor epoxide                      | mg/kg | 0.1  | <0.1                |
|                      |            | Alpha Endosulfan                        | mg/kg | 0.2  | <0.2                |
|                      |            | Gamma Chlordane                         | mg/kg | 0.1  | <0.1                |
|                      |            | Alpha Chlordane                         | mg/kg | 0.1  | <0.1                |
|                      |            | p,p'-DDE                                | mg/kg | 0.1  | <0.1                |
|                      |            | Dieldrin                                | mg/kg | 0.2  | <0.2                |
|                      |            | Endrin                                  | mg/kg | 0.2  | <0.2                |
|                      |            | Beta Endosulfan                         | mg/kg | 0.2  | <0.2                |
|                      |            | p,p'-DDD                                | mg/kg | 0.1  | <0.1                |
|                      |            | p,p'-DDT                                | mg/kg | 0.1  | <0.1                |
|                      |            | Endosulfan sulphate                     | mg/kg | 0.1  | <0.1                |
|                      |            | Endrin Aldehyde                         | mg/kg | 0.1  | <0.1                |
|                      |            | Methoxychlor                            | mg/kg | 0.1  | <0.1                |
|                      |            | Endrin Ketone                           | mg/kg | 0.1  | <0.1                |
|                      |            | Isodrin                                 | mg/kg | 0.1  | <0.1                |
|                      |            | Mirex                                   | mg/kg | 0.1  | <0.1                |
|                      | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -    | 97                  |
| P Pesticides in Soil |            |                                         |       | Meth | od: ME-(AU)-[ENV]AN |
| ample Number         |            | Parameter                               | Units | LOR  | Result              |
| 3204738.001          |            | Dichlorvos                              | mg/kg | 0.5  | <0.5                |
|                      |            | Dimethoate                              | mg/kg | 0.5  | <0.5                |
|                      |            | Diazinon (Dimpylate)                    | mg/kg | 0.5  | <0.5                |
|                      |            | Fenitrothion                            | mg/kg | 0.2  | <0.2                |
|                      |            | Malathion                               | mg/kg | 0.2  | <0.2                |
|                      |            | Chlorpyrifos (Chlorpyrifos Ethyl)       | mg/kg | 0.2  | <0.2                |
|                      |            | Parathion-ethyl (Parathion)             | mg/kg | 0.2  | <0.2                |
|                      |            | Bromophos Ethyl                         | mg/kg | 0.2  | <0.2                |
|                      |            | Methidathion                            | mg/kg | 0.5  | <0.5                |
|                      |            | Ethion                                  | mg/kg | 0.2  | <0.2                |
|                      |            | Azinphos-methyl (Guthion)               | mg/kg | 0.2  | <0.2                |
|                      | Surrogates | 2-fluorobiphenyl (Surrogate)            | %     | _    | 99                  |
|                      |            |                                         |       |      |                     |

| PAH (Polynuclear Aromatic Hydrocarbo | ons) in Soil        |       | Meth | od: ME-(AU)-[ENV]AN420 |
|--------------------------------------|---------------------|-------|------|------------------------|
| Sample Number                        | Parameter           | Units | LOR  | Result                 |
| LB204738.001                         | 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                   |

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# **METHOD BLANKS**

## SE208846 R0

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.

|                       | natic Hydrocarbons) in Soil (co |                                         | Units                                     | LOR         | od: ME-(AU)-[ENV]AI<br>Result |
|-----------------------|---------------------------------|-----------------------------------------|-------------------------------------------|-------------|-------------------------------|
| Sample Number         |                                 | Parameter                               |                                           |             |                               |
| _B204738.001          |                                 | 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)             | %                                         | -           | 84                            |
|                       |                                 | 2-fluorobiphenyl (Surrogate)            | %                                         | -           | 87                            |
|                       |                                 | d14-p-terphenyl (Surrogate)             | %                                         | -           | 90                            |
| CBs in Soil           |                                 |                                         |                                           | Metho       | od: ME-(AU)-[ENV]AN           |
| Sample Number         |                                 | Parameter                               | Units                                     | LOR         | Result                        |
| _B204738.001          |                                 | Arochlor 1016                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochlor 1221                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochlor 1232                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochior 1242                           |                                           | 0.2         | <0.2                          |
|                       |                                 |                                         | mg/kg                                     |             |                               |
|                       |                                 | Arochlor 1248                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochlor 1254                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochlor 1260                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochlor 1262                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Arochlor 1268                           | mg/kg                                     | 0.2         | <0.2                          |
|                       |                                 | Total PCBs (Arochlors)                  | mg/kg                                     | 1           | <1                            |
|                       | Surrogates                      | Tetrachloro-m-xylene (TCMX) (Surrogate) | %                                         | -           | 97                            |
| otal Recoverable Elei | ments in Soil/Waste Solids/Mat  | erials by ICPOES                        |                                           | Method: ME- | (AU)-[ENV]AN040/A             |
| Sample Number         |                                 | Parameter                               | Units                                     | LOR         | Result                        |
| _B204772.001          |                                 | 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                                |                                           | 1           | <1                            |
|                       |                                 |                                         | mg/kg                                     |             | <2.0                          |
|                       |                                 | Zinc, Zn                                | mg/kg                                     | 2           |                               |
| RH (Total Recoverab   | le Hydrocarbons) in Soil        |                                         |                                           | Metho       | od: ME-(AU)-[ENV]A            |
| Sample Number         |                                 | Parameter                               | Units                                     | LOR         | Result                        |
| _B204738.001          |                                 | 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                          |
| /OC's in Soil         |                                 |                                         |                                           |             |                               |
|                       |                                 |                                         |                                           |             | od: ME-(AU)-[ENV]AI           |
| Sample Number         |                                 | Parameter                               | Units                                     | LOR         | Result                        |
| _B204737.001          | Monocyclic Aromatic             | Benzene                                 | mg/kg                                     | 0.1         | <0.1                          |
|                       | Hydrocarbons                    | 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                             | mg/kg                                     | 0.1         | <0.1                          |
|                       | Surrogates                      | d4-1,2-dichloroethane (Surrogate)       | %                                         | -           | 76                            |
|                       |                                 | d8-toluene (Surrogate)                  | %                                         | -           | 84                            |
|                       |                                 | Bromofluorobenzene (Surrogate)          | %                                         | -           | 88                            |
|                       | Totals                          | Total BTEX                              | mg/kg                                     | 0.6         | <0.6                          |
| olatila Patrolaum Use |                                 |                                         | <u>, , , , , , , , , , , , , , , , , </u> |             | od: ME-(AU)-[ENV]A            |
| olatile Petroleum Hyd |                                 |                                         |                                           |             |                               |
| Sample Number         |                                 | Parameter                               | Units                                     | LOR         | Result                        |
| D004707.004           |                                 | TRH C6-C9                               | mg/kg                                     | 20          | <20                           |
| _B204737.001          |                                 |                                         | gg                                        | 20          | -20                           |



Method: ME-(AU)-IENVIAN002

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

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.

| Mercury in Soil |              |           |       |      |          | Meth      | od: ME-(AU)- | [ENV]AN312 |
|-----------------|--------------|-----------|-------|------|----------|-----------|--------------|------------|
| Original        | Duplicate    | Parameter | Units | LOR  | Original | Duplicate | Criteria %   | RPD %      |
| SE208846.007    | LB204774.014 | Mercury   | mg/kg | 0.05 | <0.05    | <0.05     | 200          | 0          |
| SE208846.014    | LB204774.022 | Mercury   | mg/kg | 0.05 | <0.05    | <0.05     | 200          | 0          |

#### **Moisture Content**

| Original     | Duplicate    | Parameter  | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|-------|-----|----------|-----------|------------|-------|
| SE208846.014 | LB204739.020 | % Moisture | %w/w  | 1   | 9.1      | 8.1       | 42         | 12    |

### OC Pesticides in Soil

| 20           |                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Moun                                                                                                                                                                 |                                                                                                                                                                                        | Terror have                                                                                                                                                                                               |
|--------------|---------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Duplicate    |                           | Parameter                               | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Original                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Duplicate                                                                                                                                                            | Criteria %                                                                                                                                                                             | RPD %                                                                                                                                                                                                     |
| LB204738.022 |                           | Hexachlorobenzene (HCB)                 | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Alpha BHC                               | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Lindane                                 | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Heptachlor                              | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Aldrin                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Beta BHC                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Delta BHC                               | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Heptachlor epoxide                      | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | o,p'-DDE                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Alpha Endosulfan                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.2                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Gamma Chlordane                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Alpha Chlordane                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | trans-Nonachlor                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | p,p'-DDE                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Dieldrin                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.2                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Endrin                                  | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.2                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | o,p'-DDD                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | o,p'-DDT                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Beta Endosulfan                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.2                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | p,p'-DDD                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | p,p'-DDT                                | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Endosulfan sulphate                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Endrin Aldehyde                         | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Methoxychlor                            | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Endrin Ketone                           | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Isodrin                                 | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Mirex                                   | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.1                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Total CLP OC Pesticides                 | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <1                                                                                                                                                                   | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              | Surrogates                | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.13                                                                                                                                                                 | 30                                                                                                                                                                                     | 6                                                                                                                                                                                                         |
| bil          |                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Meth                                                                                                                                                                 | od: ME-(AU)-                                                                                                                                                                           |                                                                                                                                                                                                           |
| Duplicato    |                           | Parameter                               | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Original                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Duplicate                                                                                                                                                            | Criteria %                                                                                                                                                                             | RPD                                                                                                                                                                                                       |
| Duplicate    |                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                           |
| LB204738.014 |                           | Dichlorvos                              | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.5                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              |                           | Dichlorvos<br>Dimethoate                | mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.5<br><0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.5<br><0.5                                                                                                                                                         | 200<br>200                                                                                                                                                                             | 0                                                                                                                                                                                                         |
|              |                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                           |
|              |                           | Dimethoate                              | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.5                                                                                                                                                                 | 200                                                                                                                                                                                    | 0                                                                                                                                                                                                         |
|              | Duplicate<br>LB204738.022 | Duplicate<br>LB204738.022               | Duplicate       Parameter         LB204738.022       Hexachlorobenzene (HCB)         Alpha BHC       Lindane         Heptachlor       Aldrin         Beta BHC       Delta BHC         Delta BHC       Heptachlor epoxide         o.p.*DDE       Alpha Endosulfan         Gamma Chlordane       Alpha Chlordane         trans-Nonachlor       p.p.*DDE         Dieldrin       Endrin         o.p.*DDD       o.p.*DDD         Dieldrin       Endrin         eta Btochlordane       Alpha Chlordane         trans-Nonachlor       p.p.*DDE         Dieldrin       Endrin         o.p.*DDD       o.p.*DDT         Beta Endosulfan       p.p.*DDT         Endosulfan sulphate       Endrin Aldehyde         Methoxychlor       Endrin Mitexon         Isodrin       Mirex         Total CLP OC Pesticides       Surrogates         Surrogates       Tetrachloro-m-xylene (TCMX) (Surrogate) | Duplicate         Parameter         Units           LB204738.022         Hexachlorobenzene (HCB)         mg/kg           Alpha BHC         mg/kg           Lindane         mg/kg           Heptachlor         mg/kg           Heptachlor         mg/kg           Heptachlor         mg/kg           Beta BHC         mg/kg           Op'DDE         mg/kg           Alpha Endosulfan         mg/kg           Alpha Endosulfan         mg/kg           Alpha Chlordane         mg/kg           Dieldrin         mg/kg           Dieldrin         mg/kg           Op'DDE         mg/kg           Dieldrin         mg/kg           Endrin         mg/kg           Op'DDT         mg/kg           P,p'DDD         mg/kg           Endrin         mg/kg           Endrin         mg/kg           P,p'DDD         mg/kg           Endrin ketone         mg/kg <td< td=""><td>Duplicate         Parameter         Units         LOR           LB204738.022         Hexachlorobenzene (HCB)         mg/kg         0.1           Alpha BHC         mg/kg         0.1           Lindane         mg/kg         0.1           Hetachlorobenzene (HCB)         mg/kg         0.1           Lindane         mg/kg         0.1           Hetpatchlor         mg/kg         0.1           Aldrin         mg/kg         0.1           Detta BHC         mg/kg         0.1           Deta BHC         mg/kg         0.1           o.p'DDE         mg/kg         0.1           Alpha Endosulfan         mg/kg         0.1           Alpha Chlordane         mg/kg         0.1           p.p'DDE         mg/kg         0.1           Deldtin         mg/kg         0.1           Deldtin         mg/kg         0.1           Dp'DDE         mg/kg         0.1           Deldtin         mg/kg         0.1           Deldtin         mg/kg         0.1           Dp'DDD         mg/kg         0.1           p.p'DDD         mg/kg         0.1           Endrin sulphate         mg/kg         0.1&lt;</td><td>Duplicate         Parameter         Units         LOR         Original           LB204738.022         Hexachlorobenzene (HCB)         mg/kg         0.1         &lt;0.1</td>           Alpha BHC         mg/kg         0.1         &lt;0.1</td<> | Duplicate         Parameter         Units         LOR           LB204738.022         Hexachlorobenzene (HCB)         mg/kg         0.1           Alpha BHC         mg/kg         0.1           Lindane         mg/kg         0.1           Hetachlorobenzene (HCB)         mg/kg         0.1           Lindane         mg/kg         0.1           Hetpatchlor         mg/kg         0.1           Aldrin         mg/kg         0.1           Detta BHC         mg/kg         0.1           Deta BHC         mg/kg         0.1           o.p'DDE         mg/kg         0.1           Alpha Endosulfan         mg/kg         0.1           Alpha Chlordane         mg/kg         0.1           p.p'DDE         mg/kg         0.1           Deldtin         mg/kg         0.1           Deldtin         mg/kg         0.1           Dp'DDE         mg/kg         0.1           Deldtin         mg/kg         0.1           Deldtin         mg/kg         0.1           Dp'DDD         mg/kg         0.1           p.p'DDD         mg/kg         0.1           Endrin sulphate         mg/kg         0.1< | Duplicate         Parameter         Units         LOR         Original           LB204738.022         Hexachlorobenzene (HCB)         mg/kg         0.1         <0.1 | Duplicate         Parameter         Units         LOR         Original         Duplicate           LB204738.022         Hexachiorobenzene (HCB)         mg/kg         0.1         <0.1 | Duplicate         Parameter         Units         LOR         Original         Duplicate         Criteria %           LE204738.022         Hexachiorobenzene (HCB)         mg/kg         0.1         <0.1 |

mg/kg

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1.7

Units LOR

< 0.2

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<17

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Chlorpyrifos (Chlorpyrifos Ethyl)

Parathion-ethyl (Parathion)

Azinphos-methyl (Guthion)

2-fluorobiphenyl (Surrogate)

d14-p-terphenyl (Surrogate)

Total OP Pesticides\*

Bromophos Ethyl

Methidathion

Parameter

Ethion

Surrogates

Duplicate

PCBs in Soil

Original

24/7/2020

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

200

200

200

200

200

200

200

30

30

0

0

0

0

0

0

0

3

3



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.

| PCBs in Soil (conti                                                                  |                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| SE208846.014                                                                         | LB204738.022                                     |                                             | Arochlor 1016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                                                                                      |                                                  |                                             | Arochlor 1232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Original                                                                             | Duplicate                                        | ) in Soil                                   | Zinc, Zn  Parameter  TRH C10-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40  TRH C10-C36 Total  TRH >C10-C40 Total (F bands)  TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Original                                                                             | Duplicate                                        |                                             | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Original                                                                             | Duplicate                                        |                                             | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C34 (F3)         TRH >C10-C40 (F4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Original                                                                             | Duplicate                                        |                                             | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F4)         TRH >C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn  Parameter  TRH C10-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40  TRH C10-C36 Total  TRH >C10-C40 Total (F bands)  TRH >C10-C16  TRH >C10-C16  TRH >C10-C16  TRH >C16-C34 (F3)  TRH >C34-C40 (F4)  TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F4)         TRH >C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn  Parameter  TRH C10-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40  TRH C10-C36 Total  TRH >C10-C40 Total (F bands)  TRH >C10-C16  TRH >C10-C16  TRH >C10-C16  TRH >C16-C34 (F3)  TRH >C34-C40 (F4)  TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C16 Otal (F bands)         TRH >C10-C16 Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F4)         TRH >C10-C14         TRH C15-C28         TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn  Parameter  TRH C10-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40  TRH C10-C36 Total  TRH >C10-C36 Total  TRH >C10-C16  TRH >C10-C16  TRH >C10-C16  TRH >C10-C14  TRH >C10-C14  TRH >C10-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        |                                             | Zinc, Zn  Parameter  TRH C10-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40  TRH C10-C36 Total  TRH >C10-C36 Total  TRH >C10-C16  TRH >C10-C16  TRH >C10-C16  TRH >C34-C40 (F4)  TRH >C14-C14  TRH >C14-C14  TRH C15-C28  TRH C29-C36  TRH C37-C40  TRH C10-C36 Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C16-C34 (F4)         TRH >C16-C34 (F4)         TRH >C10-C14         TRH C15-C28         TRH C37-C40         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)                                                                                                                                                                                                                                                                                                                                                           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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16-C34 (F3)         TRH >C10-C16-C34 (F3)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16                                                                                                                                                                                                                                                                                                        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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C10-C14         TRH C15-C28         TRH C15-C28         TRH C15-C28         TRH C15-C28         TRH C37-C40         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16                                                                                                                                                                                                                                                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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C14         TRH C15-C28         TRH C15-C28         TRH C10-C36         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 - Naphthalene (F2)                                                                                                                                               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| Original<br>SE208846.007<br>SE208846.014                                             | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C14         TRH C15-C28         TRH C15-C28         TRH C10-C36         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 - Naphthalene (F2)                                                                                                                                               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| Original<br>SE208846.007<br>SE208846.014<br>SE208846.014<br>Original                 | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16-C34 (F3)         TRH >C10-C14         TRH >C10-C14         TRH >C14-C14         TRH C15-C28         TRH C10-C14         TRH C10-C14         TRH C15-C28         TRH C15-C28         TRH C10-C14         TRH C15-C28         TRH C15-C28         TRH C10-C14         TRH C15-C28         TRH C15-C28         TRH C15-C28         TRH C15-C28         TRH >C10-C16         TRH >C10-C34 (F3)         TRH >C34-C40 (F4)                                                                                                                                                                                                       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| Original<br>SE208846.007                                                             | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16-C34 (F3)         TRH >C46-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14         TRH C15-C28         TRH C10-C14         TRH C15-C28         TRH C15-C28         TRH C37-C40         TRH C37-C40         TRH C37-C40         TRH >C10-C16         TRH >C10-C34 (F3) <td>mg/kg           Units           mg/kg           mg/kg</td> <td>2<br/>LOR<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>110<br/>20<br/>45<br/>45<br/>90<br/>120<br/>110<br/>20<br/>45<br/>45<br/>90<br/>120<br/>110<br/>20<br/>45<br/>45<br/>90<br/>120<br/>120<br/>120<br/>120<br/>120<br/>120<br/>120<br/>12</td> <td>6.8<br/>Original<br/>&lt;20<br/>&lt;45<br/>&lt;100<br/>&lt;110<br/>&lt;210<br/>&lt;25<br/>&lt;25<br/>&lt;90<br/>&lt;120<br/>&lt;45<br/>&lt;45<br/>&lt;100<br/>&lt;110<br/>&lt;225<br/>&lt;25<br/>&lt;90<br/>&lt;120<br/>&lt;20<br/>&lt;45<br/>&lt;45<br/>&lt;100<br/>&lt;120<br/>&lt;25<br/>&lt;25<br/>&lt;90<br/>&lt;120<br/>&lt;45<br/>&lt;45<br/>&lt;120<br/>&lt;45<br/>&lt;45<br/>&lt;120<br/>&lt;45<br/>&lt;45<br/>&lt;120<br/>&lt;45<br/>&lt;45<br/>&lt;45<br/>&lt;45<br/>&lt;45<br/>&lt;45<br/>&lt;45<br/>&lt;45</td> <td>Meth           Duplicate           &lt;20</td> <45 | mg/kg           Units           mg/kg                                        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| Original<br>SE208846.007<br>SE208846.014<br>SE208846.014<br>Original                 | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C16         TRH C15-C28         TRH C10-C14         TRH C10-C14         TRH C10-C36         TRH C37-C40         TRH >C10-C40 Total (F bands)         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 (F3)         TRH >C10-C16 (F4)                                                                                                                                                                                                                                                                                                                                                                                                    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2<br>LOR<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>110<br>20<br>45<br>45<br>90<br>120<br>110<br>20<br>45<br>45<br>90<br>120<br>100<br>20<br>45<br>90<br>120<br>100<br>20<br>45<br>90<br>120<br>100<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>100<br>100<br>20<br>45<br>45<br>100<br>100<br>20<br>45<br>45<br>100<br>100<br>20<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>20<br>25<br>25<br>90<br>120<br>100<br>110<br>210<br>20<br>25<br>25<br>90<br>120<br>120<br>20<br>20<br>25<br>25<br>90<br>120<br>20<br>20<br>25<br>25<br>90<br>120<br>20<br>20<br>25<br>25<br>90<br>120<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                                                                       | 6.8         Original     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| Original<br>SE208846.007<br>SE208846.014<br>SE208846.014<br>Original                 | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C34-C40 (F4)         TRH C15-C28         TRH C10-C14         TRH C10-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 (F3)         TRH >C10-C16 (F4)                                                                             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| Original<br>SE208846.007<br>SE208846.014<br>SE208846.014<br>OC's in Soil<br>Original | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH C10-C14         TRH C15-C28         TRH C10-C36 Total         TRH C10-C36 Total         TRH C10-C36 Total         TRH >C10-C16         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 (F3)         TRH >C10-C16 (F4)                                                                                                                                                  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<td>2<br/>LOR<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>100<br/>20<br/>45<br/>45<br/>100<br/>100<br/>20<br/>45<br/>45<br/>100<br/>100<br/>20<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>20<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>1</td> <td>6.8         Original         &lt;20</td> <45                                                                                                                               | 2<br>LOR<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>100<br>100<br>20<br>45<br>45<br>100<br>100<br>20<br>45<br>45<br>100<br>100<br>20<br>20<br>45<br>45<br>100<br>110<br>210<br>20<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>1                                       | 6.8         Original     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                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Image: New York         New York           Criteria         %           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200                                                                                                                              | [ENV]A<br>RPD<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Original<br>SE208846.007<br>SE208846.014<br>SE208846.014<br>Original                 | Duplicate<br>LB204738.014                        | TRH F Bands TRH F Bands Monocyclic Aromatic | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH C10-C14         TRH C10-C14         TRH C10-C36 Total         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 - Naph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg           Units           mg/kg           mg/kg </td <td>2<br/>LOR<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>20<br/>45<br/>45<br/>100<br/>120<br/>20<br/>45<br/>45<br/>100<br/>120<br/>20<br/>45<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>45<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>25<br/>25<br/>90<br/>120<br/>20<br/>120<br/>25<br/>25<br/>90<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>25<br/>25<br/>90<br/>120<br/>20<br/>120<br/>25<br/>25<br/>90<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>1</td> <td>6.8         Original         &lt;20</td> <45                                                                                           | 2<br>LOR<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>20<br>45<br>45<br>100<br>110<br>210<br>20<br>45<br>45<br>100<br>120<br>20<br>45<br>45<br>100<br>120<br>20<br>45<br>120<br>20<br>120<br>20<br>120<br>20<br>45<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>25<br>25<br>90<br>120<br>20<br>120<br>25<br>25<br>90<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>25<br>25<br>90<br>120<br>20<br>120<br>25<br>25<br>90<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>1      | 6.8         Original         <20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Meth           Duplicate           <20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ind:         ME-(AU)-I           Criteria         %           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200                                                                                                                                        | [ENV]A<br>RPD<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Original<br>SE208846.007<br>SE208846.014<br>SE208846.014<br>Original                 | Duplicate<br>LB204738.014                        | TRH F Bands                                 | Zinc, Zn         Parameter         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH C10-C14         TRH C15-C28         TRH C10-C36 Total         TRH C10-C36 Total         TRH C10-C36 Total         TRH >C10-C16         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C16 (F3)         TRH >C10-C16 (F4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg           Units           mg/kg           mg/kg </td <td>2<br/>LOR<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>100<br/>20<br/>45<br/>45<br/>100<br/>100<br/>20<br/>45<br/>45<br/>100<br/>100<br/>20<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>20<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>45<br/>45<br/>100<br/>110<br/>210<br/>25<br/>25<br/>90<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>20<br/>120<br/>1</td> <td>6.8         Original         &lt;20</td> <45                                                                                                                               | 2<br>LOR<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>90<br>120<br>20<br>45<br>45<br>100<br>100<br>20<br>45<br>45<br>100<br>100<br>20<br>45<br>45<br>100<br>100<br>20<br>20<br>45<br>45<br>100<br>110<br>210<br>20<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>20<br>120<br>1                                       | 6.8         Original         <20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Meth           Duplicate           <20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Image: New York         New York           Criteria         %           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200           200         200                                                                                                                              | [ENV]A<br>RPD<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



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

#### Method: ME-(AU)-[ENV]AN433 VOC's in Soil (continued) Original Duplicate Criteria % RPD % Original Duplicate Parameter Units LOR SE208846.007 LB204737.014 Bromofluorobenzene (Surrogate) 7.9 50 7.0 12 Surrogates mg/kg Totals Total Xylenes mg/kg 0.3 < 0.3 < 0.3 200 0 Total BTEX 0.6 <0.6 <0.6 200 0 mg/kg SE208846.014 LB204737.022 Monocyclic Benzene 0.1 <0.1 <0.1 200 0 mg/kg Aromatic Toluene mg/kg 01 <0.1 <0.1 200 0 Ethylbenzene 0.1 <0.1 <0.1 200 0 mg/kg 0.2 <0.2 <0.2 200 0 m/p-xvlene ma/ka o-xylene mg/kg 0.1 < 0.1 <0.1 200 0 Polycyclic 0.1 <0.1 <0.1 200 0 Naphthalene mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) 7.7 50 6 mg/kg 8.1 d8-toluene (Surrogate) mg/kg 7.5 7.6 50 1 Bromofluorobenzene (Surrogate) 7.4 8.5 50 14 mg/kg Totals 0.3 < 0.3 Total Xvlenes < 0.3 200 0 mg/kg Total BTEX 0.6 <0.6 <0.6 200 0 mg/kg Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 Original Duplicate Units LOR Duplicate Criteria % RPD % Parameter Original SE208846.007 LB204737.014 **TRH C6-C10** mg/kg 25 <25 <25 200 0 TRH C6-C9 20 <20 <20 200 0 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) 7.8 30 mg/kg 7.5 3 d8-toluene (Surrogate) mg/kg 7.1 7.4 30 4 Bromofluorobenzene (Surrogate) 7.9 7.0 30 12 mg/kg VPH F Bands Benzene (F0) 0.1 <0.1 <0.1 200 0 mg/kg TRH C6-C10 minus BTEX (F1) 200 mg/kg 25 <25 <25 0 SE208846.014 LB204737.022 TRH C6-C10 25 <25 <25 200 0 mg/kg TRH C6-C9 20 <20 <20 200 0 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) 7.7 30 mg/kg 8.1 6 d8-toluene (Surrogate) 7.5 7.6 30 mg/kg 1 Bromofluorobenzene (Surrogate) 7.4 8.5 30 14 mg/kg VPH F Bands <0.1 <0.1 200 0 Benzene (F0) mg/kg 0.1 TRH C6-C10 minus BTEX (F1) mg/kg 25 <25 <25 200 0



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

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)-[EN |           |       |      |        | U)-[ENV]AN312 |            |            |
|-------------------------------------|-----------|-------|------|--------|---------------|------------|------------|
| Sample Number                       | Parameter | Units | LOR  | Result | Expected      | Criteria % | Recovery % |
| LB204774.002                        | Mercury   | mg/kg | 0.05 | 0.20   | 0.2           | 70 - 130   | 98         |

| OC F | Pestic | ides i | n Soi | I |
|------|--------|--------|-------|---|
|      |        |        |       |   |

| Sample Number                       |                  | Parameter                                                                                                                                                                                                                                                                                 | Units                                                                                  | LOR                                                                   | Result                                                                    | Expected                                                                          | Criteria %                                                                                                                                                                            | Recovery %                                                                                            |
|-------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| LB204738.002                        |                  | Heptachlor                                                                                                                                                                                                                                                                                | mg/kg                                                                                  | 0.1                                                                   | 0.2                                                                       | 0.2                                                                               | 60 - 140                                                                                                                                                                              | 83                                                                                                    |
|                                     |                  | Aldrin                                                                                                                                                                                                                                                                                    | mg/kg                                                                                  | 0.1                                                                   | 0.2                                                                       | 0.2                                                                               | 60 - 140                                                                                                                                                                              | 88                                                                                                    |
|                                     |                  | Delta BHC                                                                                                                                                                                                                                                                                 | mg/kg                                                                                  | 0.1                                                                   | 0.2                                                                       | 0.2                                                                               | 60 - 140                                                                                                                                                                              | 82                                                                                                    |
|                                     |                  | Dieldrin                                                                                                                                                                                                                                                                                  | mg/kg                                                                                  | 0.2                                                                   | <0.2                                                                      | 0.2                                                                               | 60 - 140                                                                                                                                                                              | 88                                                                                                    |
|                                     |                  | Endrin                                                                                                                                                                                                                                                                                    | mg/kg                                                                                  | 0.2                                                                   | <0.2                                                                      | 0.2                                                                               | 60 - 140                                                                                                                                                                              | 83                                                                                                    |
|                                     |                  | p,p'-DDT                                                                                                                                                                                                                                                                                  | mg/kg                                                                                  | 0.1                                                                   | 0.2                                                                       | 0.2                                                                               | 60 - 140                                                                                                                                                                              | 76                                                                                                    |
|                                     | Surrogates       | Tetrachloro-m-xylene (TCMX) (Surrogate)                                                                                                                                                                                                                                                   | mg/kg                                                                                  | -                                                                     | 0.13                                                                      | 0.15                                                                              | 40 - 130                                                                                                                                                                              | 89                                                                                                    |
| OP Pesticides in So                 | bil              |                                                                                                                                                                                                                                                                                           |                                                                                        |                                                                       |                                                                           | N                                                                                 | lethod: ME-(A                                                                                                                                                                         | U)-[ENV]AN420                                                                                         |
| Sample Number                       |                  | Parameter                                                                                                                                                                                                                                                                                 | Units                                                                                  | LOR                                                                   | Result                                                                    | Expected                                                                          | Criteria %                                                                                                                                                                            | Recovery %                                                                                            |
| LB204738.002                        |                  | Dichlorvos                                                                                                                                                                                                                                                                                | mg/kg                                                                                  | 0.5                                                                   | 1.7                                                                       | 2                                                                                 | 60 - 140                                                                                                                                                                              | 86                                                                                                    |
|                                     |                  | Diazinon (Dimpylate)                                                                                                                                                                                                                                                                      | mg/kg                                                                                  | 0.5                                                                   | 1.8                                                                       | 2                                                                                 | 60 - 140                                                                                                                                                                              | 91                                                                                                    |
|                                     |                  | Chlorpyrifos (Chlorpyrifos Ethyl)                                                                                                                                                                                                                                                         | mg/kg                                                                                  | 0.2                                                                   | 1.9                                                                       | 2                                                                                 | 60 - 140                                                                                                                                                                              | 95                                                                                                    |
|                                     |                  | Ethion                                                                                                                                                                                                                                                                                    | mg/kg                                                                                  | 0.2                                                                   | 1.3                                                                       | 2                                                                                 | 60 - 140                                                                                                                                                                              | 63                                                                                                    |
|                                     | Surrogates       | 2-fluorobiphenyl (Surrogate)                                                                                                                                                                                                                                                              | mg/kg                                                                                  | -                                                                     | 0.4                                                                       | 0.5                                                                               | 40 - 130                                                                                                                                                                              | 88                                                                                                    |
|                                     |                  | d14-p-terphenyl (Surrogate)                                                                                                                                                                                                                                                               | mg/kg                                                                                  | -                                                                     | 0.4                                                                       | 0.5                                                                               | 40 - 130                                                                                                                                                                              | 84                                                                                                    |
|                                     |                  |                                                                                                                                                                                                                                                                                           |                                                                                        |                                                                       |                                                                           |                                                                                   |                                                                                                                                                                                       |                                                                                                       |
| PAH (Polynuclear A                  | Aromatic Hydroca | rbons) in Soil                                                                                                                                                                                                                                                                            |                                                                                        |                                                                       |                                                                           | N                                                                                 | Nethod: ME-(A                                                                                                                                                                         | U)-[ENV]AN420                                                                                         |
| PAH (Polynuclear A<br>Sample Number | Aromatic Hydroca | <mark>rbons) in Soil</mark><br>Parameter                                                                                                                                                                                                                                                  | Units                                                                                  | LOR                                                                   | Result                                                                    | N<br>Expected                                                                     | <b>/ethod: ME-(A</b><br>Criteria %                                                                                                                                                    | <mark>U)-[ENV]AN420</mark><br>Recovery %                                                              |
| • •                                 | Aromatic Hydroca | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                     | Units<br>mg/kg                                                                         | LOR<br>0.1                                                            | Result<br>4.2                                                             |                                                                                   |                                                                                                                                                                                       | <u>·· ·</u>                                                                                           |
| Sample Number                       | Aromatic Hydroca | Parameter                                                                                                                                                                                                                                                                                 |                                                                                        |                                                                       |                                                                           | Expected                                                                          | Criteria %                                                                                                                                                                            | Recovery %                                                                                            |
| Sample Number                       | Aromatic Hydroca | Parameter<br>Naphthalene                                                                                                                                                                                                                                                                  | mg/kg                                                                                  | 0.1                                                                   | 4.2                                                                       | Expected<br>4                                                                     | Criteria %<br>60 - 140                                                                                                                                                                | Recovery %<br>105                                                                                     |
| Sample Number                       | Aromatic Hydroca | Parameter<br>Naphthalene<br>Acenaphthylene                                                                                                                                                                                                                                                | mg/kg<br>mg/kg                                                                         | 0.1<br>0.1                                                            | 4.2<br>4.2                                                                | Expected<br>4<br>4                                                                | Criteria %<br>60 - 140<br>60 - 140                                                                                                                                                    | Recovery %<br>105<br>106                                                                              |
| Sample Number                       | Aromatic Hydroca | Parameter<br>Naphthalene<br>Acenaphthylene<br>Acenaphthene                                                                                                                                                                                                                                | mg/kg<br>mg/kg<br>mg/kg                                                                | 0.1<br>0.1<br>0.1                                                     | 4.2<br>4.2<br>4.4                                                         | Expected<br>4<br>4<br>4                                                           | Criteria %<br>60 - 140<br>60 - 140<br>60 - 140                                                                                                                                        | Recovery %<br>105<br>106<br>110                                                                       |
| Sample Number                       | Aromatic Hydroca | Parameter       Naphthalene       Acenaphthylene       Acenaphthene       Phenanthrene                                                                                                                                                                                                    | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                       | 0.1<br>0.1<br>0.1<br>0.1                                              | 4.2<br>4.2<br>4.4<br>4.4                                                  | Expected<br>4<br>4<br>4<br>4<br>4                                                 | Criteria %<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                                                                                            | Recovery %<br>105<br>106<br>110<br>109                                                                |
| Sample Number                       | Aromatic Hydroca | Parameter       Naphthalene       Acenaphthylene       Acenaphthene       Phenanthrene       Anthracene                                                                                                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                              | 0.1<br>0.1<br>0.1<br>0.1<br>0.1                                       | 4.2<br>4.2<br>4.4<br>4.4<br>4.2                                           | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4                                       | Criteria %<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                                                                                | Recovery %<br>105<br>106<br>110<br>109<br>106                                                         |
| Sample Number                       | Aromatic Hydroca | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene                                                                                                                                                    | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                     | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                         | 4.2<br>4.2<br>4.4<br>4.4<br>4.2<br>4.3                                    | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4                                  | Criteria %<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                                                                    | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106                                                  |
| Sample Number                       | Aromatic Hydroca | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene         Pyrene                                                                                                                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                            | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1                  | 4.2<br>4.2<br>4.4<br>4.4<br>4.2<br>4.3<br>4.3<br>4.4                      | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4                        | Criteria %<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140<br>60 - 140                                                                                        | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106<br>110                                           |
| Sample Number                       |                  | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)pyrene                                                                                                              | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1           | 4.2<br>4.2<br>4.4<br>4.4<br>4.2<br>4.3<br>4.4<br>4.4<br>4.6               | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4                        | Criteria %           60 - 140           60 - 140           60 - 140           60 - 140           60 - 140           60 - 140           60 - 140           60 - 140           60 - 140 | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106<br>110<br>110<br>116                             |
| Sample Number                       |                  | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)pyrene         d5-nitrobenzene (Surrogate)                                                                          | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg          | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1           | 4.2<br>4.2<br>4.4<br>4.4<br>4.2<br>4.3<br>4.4<br>4.6<br>0.4               | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>0.5                 | Criteria %<br>60 - 140<br>60 - 140<br>40 - 130                                                    | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106<br>106<br>110<br>116<br>84                       |
| Sample Number                       |                  | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)pyrene         d5-nitrobenzene (Surrogate)         2-fluorobiphenyl (Surrogate)                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>-<br>-        | 4.2<br>4.2<br>4.4<br>4.4<br>4.2<br>4.3<br>4.4<br>4.6<br>0.4<br>0.4<br>0.4 | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>0.5<br>0.5<br>0.5<br>0.5 | Criteria %<br>60 - 140<br>60 - 140<br>40 - 130<br>40 - 130<br>40 - 130                                        | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106<br>106<br>110<br>116<br>84<br>88                 |
| Sample Number<br>LB204738.002       |                  | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)pyrene         d5-nitrobenzene (Surrogate)         2-fluorobiphenyl (Surrogate)                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>-<br>-        | 4.2<br>4.2<br>4.4<br>4.4<br>4.2<br>4.3<br>4.4<br>4.6<br>0.4<br>0.4<br>0.4 | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>0.5<br>0.5<br>0.5<br>0.5 | Criteria %<br>60 - 140<br>60 - 140<br>40 - 130<br>40 - 130<br>40 - 130                                        | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106<br>106<br>110<br>116<br>84<br>88<br>88<br>88     |
| Sample Number<br>LB204738.002       |                  | Parameter         Naphthalene         Acenaphthylene         Acenaphthene         Phenanthrene         Anthracene         Fluoranthene         Pyrene         Benzo(a)pyrene         d5-nitrobenzene (Surrogate)         2-fluorobiphenyl (Surrogate)         d14-p-terphenyl (Surrogate) | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>-<br>- | 4.2<br>4.4<br>4.4<br>4.2<br>4.3<br>4.4<br>4.6<br>0.4<br>0.4<br>0.4<br>0.4 | Expected<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>0.5<br>0.5<br>0.5<br>0.5      | Criteria %<br>60 - 140<br>60 - 140<br>40 - 130<br>40 - 130<br>40 - 130<br><b>Alethod: ME-(A</b>   | Recovery %<br>105<br>106<br>110<br>109<br>106<br>106<br>110<br>116<br>84<br>88<br>86<br>U)-[ENV]AN420 |

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

| Total Recoverable I | Elements in Soil/V | Vaste Solids/Materials by ICPOES |           |     |        | Method:  | ME-(AU)-[EN   | /]AN040/AN320 |
|---------------------|--------------------|----------------------------------|-----------|-----|--------|----------|---------------|---------------|
| Sample Number       |                    | Parameter                        | Units     | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB204772.002        |                    | Arsenic, As                      | mg/kg     | 1   | 330    | 318.22   | 80 - 120      | 103           |
|                     |                    | Cadmium, Cd                      | mg/kg     | 0.3 | 5.6    | 5.41     | 80 - 120      | 103           |
|                     |                    | Chromium, Cr                     | <br>mg/kg | 0.5 | 39     | 38.31    | 80 - 120      | 103           |
|                     |                    | Copper, Cu                       | <br>mg/kg | 0.5 | 300    | 290      | 80 - 120      | 105           |
|                     |                    | Nickel, Ni                       | mg/kg     | 0.5 | 190    | 187      | 80 - 120      | 102           |
|                     |                    | Lead, Pb                         | mg/kg     | 1   | 93     | 89.9     | 80 - 120      | 104           |
|                     |                    | Zinc, Zn                         | mg/kg     | 2   | 280    | 273      | 80 - 120      | 102           |
| TRH (Total Recove   | rable Hydrocarbo   | ns) in Soil                      |           |     |        | N        | Nethod: ME-(A | U)-[ENV]AN403 |
| Sample Number       |                    | Parameter                        | Units     | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB204738.002        |                    | TRH C10-C14                      | mg/kg     | 20  | 37     | 40       | 60 - 140      | 93            |
|                     |                    | TRH C15-C28                      | mg/kg     | 45  | <45    | 40       | 60 - 140      | 83            |
|                     |                    | TRH C29-C36                      | <br>mg/kg | 45  | <45    | 40       | 60 - 140      | 93            |
|                     | TRH F Bands        | TRH >C10-C16                     | <br>mg/kg | 25  | 36     | 40       | 60 - 140      | 90            |
|                     |                    | TRH >C16-C34 (F3)                | mg/kg     | 90  | <90    | 40       | 60 - 140      | 83            |
|                     |                    | TRH >C34-C40 (F4)                | mg/kg     | 120 | <120   | 20       | 60 - 140      | 100           |
| VOC's in Soil       |                    |                                  |           |     |        | N        | vethod: ME-(A | U)-[ENV]AN433 |



VPH F Bands

TRH C6-C10 minus BTEX (F1)

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 Expected Criteria % Recovery % LOR Result Parameter Units LB204737.002 60 - 140 Monocyclic 0.1 3.3 Benzene mg/kg 5 66 Aromatic Toluene mg/kg 0.1 3.8 5 60 - 140 77 Ethylbenzene 0.1 3.7 5 60 - 140 75 mg/kg m/p-xylene mg/kg 0.2 7.5 10 60 - 140 75 o-xylene mg/kg 0.1 37 5 60 - 140 74 Surrogates d4-1,2-dichloroethane (Surrogate) mg/kg 7.6 10 70 - 130 76 70 - 130 87 d8-toluene (Surrogate) 8.7 10 mg/kg Bromofluorobenzene (Surrogate) mg/kg 8.6 10 70 - 130 86 Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 Sample Number Units LOR Result Expected Criteria % Recovery % Parameter LB204737.002 TRH C6-C10 mg/kg 25 74 92.5 60 - 140 80 TRH C6-C9 mg/kg 20 67 80 60 - 140 84 d4-1,2-dichloroethane (Surrogate) 7.6 70 - 130 76 Surrogates mg/kg 10 -8.6 10 70 - 130 86 Bromofluorobenzene (Surrogate) mg/kg -

mg/kg

25

52

62.5

60 - 140

83



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

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 |               |           |       |      |        | Metho         | od: ME-(AU | J)-[ENV]AN312 |
|-----------------|---------------|-----------|-------|------|--------|---------------|------------|---------------|
| QC Sample       | Sample Number | Parameter | Units | LOR  | Result | Original      | Spike      | Recovery%     |
| SE208918.001    | LB204774.004  | Mercury   | mg/kg | 0.05 | 0.18   | 0.00314649167 | 0.2        | 89            |

**OP Pesticides in Soil** 

| QC Sample    | Sample Number |             | Parameter                         | Units | LOR | Original | Spike | Recovery% |
|--------------|---------------|-------------|-----------------------------------|-------|-----|----------|-------|-----------|
| SE208846.001 | LB204738.024  |             | Dichlorvos                        | mg/kg | 0.5 | <0.5     | 2     | 82        |
|              |               |             | Dimethoate                        | mg/kg | 0.5 | <0.5     | -     | -         |
|              |               |             | Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5     | 2     | 90        |
|              |               |             | Fenitrothion                      | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |             | Malathion                         | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |             | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2     | 2     | 94        |
|              |               |             | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |             | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |             | Methidathion                      | mg/kg | 0.5 | <0.5     | -     | -         |
|              |               |             | Ethion                            | mg/kg | 0.2 | <0.2     | 2     | 86        |
|              |               | Azinphos-mo | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |             | Total OP Pesticides*              | mg/kg | 1.7 | <1.7     | -     | -         |
|              |               | Surrogates  | 2-fluorobiphenyl (Surrogate)      | mg/kg | -   | 0.4      | -     | 88        |
|              |               |             | d14-p-terphenyl (Surrogate)       | mg/kg | -   | 0.4      | -     | 89        |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

|               |                       |              | a 14 p telphenyi (ourlogate)                                                                                                   | nig/kg      |     | 0.4      |       | 00             |
|---------------|-----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------|-------------|-----|----------|-------|----------------|
| i (Polynuclea | ar Aromatic Hydrocarb | ons) in Soil |                                                                                                                                |             |     |          | м     | lethod: ME-(AU |
| Sample        | Sample Number         |              | Parameter                                                                                                                      | Units       | LOR | Original | Spike | Recovery%      |
| 08846.001     | LB204738.024          |              | Naphthalene                                                                                                                    | mg/kg       | 0.1 | <0.1     | 4     | 97             |
|               |                       |              | 2-methylnaphthalene                                                                                                            | mg/kg       | 0.1 | <0.1     | -     | -              |
|               |                       |              | 1-methylnaphthalene                                                                                                            | mg/kg       | 0.1 | <0.1     | -     | -              |
|               |                       |              | Acenaphthylene                                                                                                                 | mg/kg       | 0.1 | <0.1     | 4     | 100            |
|               |                       |              | Acenaphthene                                                                                                                   | mg/kg       | 0.1 | <0.1     | 4     | 106            |
|               |                       |              | Fluorene                                                                                                                       | mg/kg       | 0.1 | <0.1     | -     | -              |
|               |                       |              | Phenanthrene                                                                                                                   | mg/kg       | 0.1 | <0.1     | 4     | 101            |
|               |                       |              | Anthracene                                                                                                                     | mg/kg       | 0.1 | <0.1     | 4     | 101            |
|               |                       |              | Fluoranthene                                                                                                                   | mg/kg       | 0.1 | 0.1      | 4     | 106            |
|               |                       |              | Pyrene                                                                                                                         | mg/kg       | 0.1 | 0.1      | 4     | 97             |
|               |                       |              | 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     | 4     | 108            |
|               |                       |              | 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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>-</td><td>-</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2     | -     | -              |
|               |                       |              | Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>-</td><td>-</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3     | -     | -              |
|               |                       |              | Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>-</td><td>-</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2     | -     | -              |
|               |                       |              | Total PAH (18)                                                                                                                 | mg/kg       | 0.8 | <0.8     | -     | -              |
|               |                       | Surrogates   | d5-nitrobenzene (Surrogate)                                                                                                    | mg/kg       | -   | 0.4      | -     | 87             |
|               |                       |              | 2-fluorobiphenyl (Surrogate)                                                                                                   | mg/kg       | -   | 0.4      | -     | 88             |
|               |                       |              | d14-p-terphenyl (Surrogate)                                                                                                    | mg/kg       | -   | 0.4      | -     | 89             |
| 8895.001      | LB204738.023          |              | Naphthalene                                                                                                                    | mg/kg       | 0.1 | <0.1     | 4     | 98             |
|               |                       |              | 2-methylnaphthalene                                                                                                            | mg/kg       | 0.1 | <0.1     | -     | -              |
|               |                       |              | 1-methylnaphthalene                                                                                                            | mg/kg       | 0.1 | <0.1     | -     | -              |
|               |                       |              | Acenaphthylene                                                                                                                 | mg/kg       | 0.1 | <0.1     | 4     | 111            |
|               |                       |              | Acenaphthene                                                                                                                   | mg/kg       | 0.1 | <0.1     | 4     | 104            |
|               |                       |              | Fluorene                                                                                                                       | mg/kg       | 0.1 | <0.1     | -     | -              |
|               |                       |              | Phenanthrene                                                                                                                   | mg/kg       | 0.1 | <0.1     | 4     | 96             |
|               |                       |              | Anthracene                                                                                                                     | mg/kg       | 0.1 | <0.1     | 4     | 97             |
|               |                       |              | Fluoranthene                                                                                                                   | mg/kg       | 0.1 | <0.1     | 4     | 108            |
|               |                       |              | Pyrene                                                                                                                         | mg/kg       | 0.1 | <0.1     | 4     | 107            |
|               |                       |              | 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     |       | -              |



Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) Method: ME-(AU)-[ENV]AN420 QC Sample Sample Number Parameter Original Spike Recovery% Units LOR SE208895.001 LB204738.023 Benzo(k)fluoranthene 0.1 <0.1 mg/kg Benzo(a)pyrene mg/kg 0.1 < 0.1 4 106 0.1 <0.1 Indeno(1,2,3-cd)pyrene mg/kg Dibenzo(ah)anthracene 0.1 <0.1 mg/kg Benzo(ghi)perylene 01 <0.1 mg/kg Carcinogenic PAHs, BaP TEQ <LOR=0 TEQ (mg/kg) 0.2 < 0.2 Carcinogenic PAHs, BaP TEQ <LOR=LOR 0.3 < 0.3 TEQ (ma/ka) --Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 TEQ (mg/kg) 0.2 < 0.2 <0.8 Total PAH (18) 0.8 mg/kg Surrogates d5-nitrobenzene (Surrogate) 0.38 80 mg/kg -2-fluorobiphenyl (Surrogate) 0.60 78 mg/kg d14-p-terphenyl (Surrogate) mg/kg 0.52 78 Method: ME-(AU)-[ENV]AN040/AN320 Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES QC Sample Sample Number Parameter Units LOR Result Original Spike Recovery% SE208918.001 LB204772.004 Arsenic, As mg/kg 1 47 0 89521870892 50 92 Cadmium, Cd 0.3 42 -0.00744851759 84 50 mg/kg Chromium, Cr mg/kg 0.5 50 2,24852125018 50 96 Copper, Cu 0.5 17 -0 11452095808 50 94 mg/kg Nickel, Ni 0.5 47 0.07960603183 95 mg/kg 50 4.05059697677 Lead, Pb mg/kg 1 54 50 100 Zinc, Zn 48 0.24859427486 50 mg/kg 2 95 TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403 <u>e Reco</u>very% Units LOR Original QC Sample Sample Number Parameter Spi SE208895.001 LB204738.023 TRH C10-C14 20 <20 40 100 mg/kg TRH C15-C28 mg/kg 45 <45 40 85 TRH C29-C36 <45 45 40 68 mg/kg TRH C37-C40 mg/kg 100 <100 TRH C10-C36 Total 110 <110 mg/kg TRH >C10-C40 Total (F bands) 210 <210 mg/kg TRH F Bands TRH >C10-C16 mg/kg 25 <25 40 98 TRH >C10-C16 - Naphthalene (F2) mg/kg 25 <25 TRH >C16-C34 (F3) 90 <90 40 60 mg/kg TRH >C34-C40 (F4) mg/kg 120 <120 VOC's in Soil Method: ME-(AU)-[ENV]AN433 QC Sample Sample Number Units LOR Original Spik Recovery% Parameter SE208846.001 LB204737.023 Monocyclic Benzene mg/kg 0.1 <0.1 5 70 Aromatic Toluene mg/kg 0.1 < 0.1 5 68 71 Ethylbenzene 0.1 <0.1 5 mg/kg <0.2 72 m/p-xvlene ma/ka 0.2 10 o-xylene mg/kg 0.1 < 0.1 5 71 Polycyclic Naphthalene 0.1 <0.1 mg/kg d4-1,2-dichloroethane (Surrogate) Surrogates mg/kg 7.8 10 83 d8-toluene (Surrogate) 7.2 10 73 mg/kg Bromofluorobenzene (Surrogate) 7.8 10 81 mg/kg Totals Total Xvlenes mg/kg 0.3 < 0.3 -Total BTEX mg/kg 0.6 <0.6 Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 QC Sample Sample Number Parameter Units LOR Origina Spike Recovery% SE208846.001 LB204737.023 **TRH C6-C10** mg/kg 25 <25 92.5 69 TRH C6-C9 20 <20 80 71 mg/kg d4-1,2-dichloroethane (Surrogate) 7.8 Surrogates mg/kg 10 83 d8-toluene (Surrogate) mg/kg 7.2 10 73 Bromofluorobenzene (Surrogate) 7.8 81 mg/kg

VPH F

Bands

Benzene (F0)

TRH C6-C10 minus BTEX (F1)

0.1

25

mg/kg

mg/kg

<0.1

<25

62.5

68



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

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.
- 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.
- 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.
- O LOR was raised due to dilution of significantly high concentration of analyte in sample.
- Image: Image:
- Recovery failed acceptance criteria due to sample heterogeneity.
- <sup>®</sup> LOR was raised due to high conductivity of the sample (required dilution).
- t Refer to relevant report comments for further information.

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# STATEMENT OF QA/QC PERFORMANCE

| CLIENT DETAILS |                                                    | LABORATORY DETAI | ILS                                          |
|----------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager          | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference    | SE209082 R0                                  |
| Order Number   | E24724.E02                                         | Date Received    | 23 Jul 2020                                  |
| Samples        | 4                                                  | Date Reported    | 30 Jul 2020                                  |

COMMENTS

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

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

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

| Duplicate    | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 2 items |
|--------------|---------------------------------------------------------------------|---------|
| Matrix Spike | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 2 items |

SAMPLE SUMMARY

SGS Australia Pty Ltd ABN 44 000 964 278 Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Alexandria NSW 2015 Australia t +61 2 8594 0400 Australia f +61 2 8594 0499

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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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

| Fibre Identification in soil |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN602 |
|------------------------------|-------------------------|-------------------|-------------|-------------|----------------|-------------|----------------|--------------------|
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205491          | 20 Jul 2020 | 23 Jul 2020 | 20 Jul 2021    | 29 Jul 2020 | 20 Jul 2021    | 30 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205491          | 20 Jul 2020 | 23 Jul 2020 | 20 Jul 2021    | 29 Jul 2020 | 20 Jul 2021    | 30 Jul 2020        |
| Mercury in Soil              |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN312 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205314          | 20 Jul 2020 | 23 Jul 2020 | 17 Aug 2020    | 27 Jul 2020 | 17 Aug 2020    | 30 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205314          | 20 Jul 2020 | 23 Jul 2020 | 17 Aug 2020    | 27 Jul 2020 | 17 Aug 2020    | 30 Jul 2020        |
| Moisture Content             |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN002 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205135          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 29 Jul 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205135          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 29 Jul 2020    | 29 Jul 2020        |
| OC Pesticides in Soil        |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN420 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| OP Pesticides in Soil        |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN420 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 30 Jul 2020        |
| PAH (Polynuclear Aromatic H  | -lydrocarbons) in Soil  |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN420 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 30 Jul 2020        |
| PCBs in Soil                 |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN420 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| Total Recoverable Elements   | in Soil/Waste Solids/Ma | terials by ICPOES |             |             |                |             | Method: ME-(AU | )-[ENV]AN040/AN320 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205303          | 20 Jul 2020 | 23 Jul 2020 | 16 Jan 2021    | 27 Jul 2020 | 16 Jan 2021    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205303          | 20 Jul 2020 | 23 Jul 2020 | 16 Jan 2021    | 27 Jul 2020 | 16 Jan 2021    | 29 Jul 2020        |
| TRH (Total Recoverable Hyd   | Irocarbons) in Soil     |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN403 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205134          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| VOC's in Soil                |                         |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN433 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
| BH6_0.1-0.2                  | SE209082.001            | LB205133          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| BH6_1.4-1.5                  | SE209082.004            | LB205133          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |
| Volatile Petroleum Hydrocart | oons in Soil            |                   |             |             |                |             | Method: I      | ME-(AU)-[ENV]AN433 |
| Sample Name                  | Sample No.              | QC Ref            | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due   | Analysed           |
|                              |                         |                   |             |             |                |             |                |                    |
| BH6_0.1-0.2                  | SE209082.001            | LB205133          | 20 Jul 2020 | 23 Jul 2020 | 03 Aug 2020    | 24 Jul 2020 | 02 Sep 2020    | 29 Jul 2020        |



## **SURROGATES**

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.

| C Pesticides in Soil                           |             |               |       |           | E-(AU)-[ENV]AN4 |
|------------------------------------------------|-------------|---------------|-------|-----------|-----------------|
| Parameter                                      | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| Tetrachloro-m-xylene (TCMX) (Surrogate)        | BH6_0.1-0.2 | SE209082.001  | %     | 60 - 130% | 106             |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 60 - 130% | 97              |
| P Pesticides in Soil                           |             |               |       | Method: M | E-(AU)-[ENV]AN4 |
| Parameter                                      | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| 2-fluorobiphenyl (Surrogate)                   | BH6_0.1-0.2 | SE209082.001  | %     | 60 - 130% | 87              |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 60 - 130% | 87              |
| d14-p-terphenyl (Surrogate)                    | BH6_0.1-0.2 | SE209082.001  | %     | 60 - 130% | 85              |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 60 - 130% | 84              |
| AH (Polynuclear Aromatic Hydrocarbons) in Soll |             |               |       | Method: M | E-(AU)-[ENV]AN4 |
| Parameter                                      | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| 2-fluorobiphenyl (Surrogate)                   | BH6_0.1-0.2 | SE209082.001  | %     | 70 - 130% | 87              |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 70 - 130% | 87              |
| d14-p-terphenyl (Surrogate)                    | BH6_0.1-0.2 | SE209082.001  | %     | 70 - 130% | 85              |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 70 - 130% | 84              |
| d5-nitrobenzene (Surrogate)                    | BH6_0.1-0.2 | SE209082.001  | %     | 70 - 130% | 79              |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 70 - 130% | 81              |
| <b>'CBs in Soil</b>                            |             |               |       | Method: M | E-(AU)-[ENV]AN4 |
| Parameter                                      | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| Tetrachloro-m-xylene (TCMX) (Surrogate)        | BH6_0.1-0.2 | SE209082.001  | %     | 60 - 130% | 106             |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 60 - 130% | 97              |
| 'OC's in Soil                                  |             |               |       | Method: M | E-(AU)-[ENV]AN4 |
| Parameter                                      | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| Bromofluorobenzene (Surrogate)                 | BH6 0.1-0.2 | SE209082.001  | %     | 60 - 130% | 88              |
|                                                | BH6 1.4-1.5 | SE209082.004  | %     | 60 - 130% | 97              |
| d4-1,2-dichloroethane (Surrogate)              | BH6 0.1-0.2 | SE209082.001  | %     | 60 - 130% | 79              |
| · , · · · · · · · (· · · · · · · · · · ·       | BH6 1.4-1.5 | SE209082.004  | %     | 60 - 130% | 91              |
| d8-toluene (Surrogate)                         | BH6 0.1-0.2 | SE209082.001  | %     | 60 - 130% | 77              |
|                                                | BH6 1.4-1.5 | SE209082.004  | %     | 60 - 130% | 87              |
| olatile Petroleum Hydrocarbons in Soil         |             |               |       | Method: M | E-(AU)-[ENV]AN  |
| Parameter                                      | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| Bromofluorobenzene (Surrogate)                 | BH6_0.1-0.2 | SE209082.001  | %     | 60 - 130% | 88              |
|                                                | BH6_1.4-1.5 | SE209082.004  | %     | 60 - 130% | 97              |
| d4-1,2-dichloroethane (Surrogate)              | BH6 0.1-0.2 | SE209082.001  | %     | 60 - 130% | 79              |
|                                                | BH6 1.4-1.5 | SE209082.004  | %     | 60 - 130% | 91              |
|                                                |             |               |       |           | -               |
| d8-toluene (Surrogate)                         | BH6 0.1-0.2 | SE209082.001  | %     | 60 - 130% | 77              |



# **METHOD BLANKS**

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 |           |       |      |        |  |
|-----------------|-----------|-------|------|--------|--|
| Sample Number   | Parameter | Units | LOR  | Result |  |
| LB205314.001    | Mercury   | mg/kg | 0.05 | <0.05  |  |

#### OC Pesticides in Soil

| Sample Number         Parameter           LB205134.001         Hexachlorobenzene (HCB)           Alpha BHC         Lindane           Heptachlor         Aldrin | Units           mg/kg           mg/kg           mg/kg           mg/kg           mg/kg           mg/kg | 0.1<br>0.1<br>0.1<br>0.1<br>0.1<br>0.1 | Result           <0.1           <0.1           <0.1           <0.1           <0.1           <0.1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|
| Alpha BHC<br>Lindane<br>Heptachlor                                                                                                                             | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                      | 0.1<br>0.1<br>0.1<br>0.1               | <0.1<br><0.1<br><0.1                                                                             |
| Lindane<br>Heptachlor                                                                                                                                          | mg/kg<br>mg/kg<br>mg/kg                                                                               | 0.1<br>0.1<br>0.1                      | <0.1<br><0.1                                                                                     |
| Heptachlor                                                                                                                                                     | mg/kg<br>mg/kg                                                                                        | 0.1                                    | <0.1                                                                                             |
|                                                                                                                                                                | mg/kg                                                                                                 | 0.1                                    |                                                                                                  |
| Aldrin                                                                                                                                                         |                                                                                                       |                                        | <0.1                                                                                             |
| Aldiii                                                                                                                                                         | mg/kg                                                                                                 |                                        | SU. 1                                                                                            |
| Beta BHC                                                                                                                                                       |                                                                                                       | 0.1                                    | <0.1                                                                                             |
| Delta BHC                                                                                                                                                      | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Heptachlor epoxide                                                                                                                                             | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Alpha Endosulfan                                                                                                                                               | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Gamma Chlordane                                                                                                                                                | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Alpha Chlordane                                                                                                                                                | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| p,p'-DDE                                                                                                                                                       | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Dieldrin                                                                                                                                                       | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Endrin                                                                                                                                                         | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Beta Endosulfan                                                                                                                                                | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| p,p'-DDD                                                                                                                                                       | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| p,p'-DDT                                                                                                                                                       | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Endosulfan sulphate                                                                                                                                            | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Endrin Aldehyde                                                                                                                                                | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Methoxychlor                                                                                                                                                   | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Endrin Ketone                                                                                                                                                  | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Isodrin                                                                                                                                                        | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Mirex                                                                                                                                                          | mg/kg                                                                                                 | 0.1                                    | <0.1                                                                                             |
| Surrogates Tetrachloro-m-xylene (TCMX)                                                                                                                         |                                                                                                       | -                                      | 102                                                                                              |
| OP Pesticides in Soil                                                                                                                                          |                                                                                                       | Method: ME-(A                          | U)-[ENV]AN4                                                                                      |
| Sample Number Parameter                                                                                                                                        | Units                                                                                                 | LOR R                                  | lesult                                                                                           |
| LB205134.001 Dichlorvos                                                                                                                                        | mg/kg                                                                                                 | 0.5                                    | <0.5                                                                                             |
| Dimethoate                                                                                                                                                     | mg/kg                                                                                                 | 0.5                                    | <0.5                                                                                             |
| Diazinon (Dimpylate)                                                                                                                                           | mg/kg                                                                                                 | 0.5                                    | <0.5                                                                                             |
| Fenitrothion                                                                                                                                                   | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Malathion                                                                                                                                                      | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Chlorpyrifos (Chlorpyrifos Eth                                                                                                                                 |                                                                                                       | 0.2                                    | <0.2                                                                                             |
| Parathion-ethyl (Parathion)                                                                                                                                    | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Bromophos Ethyl                                                                                                                                                | mg/kg                                                                                                 | 0.2                                    | <0.2                                                                                             |
| Methidathion                                                                                                                                                   | mg/kg                                                                                                 | 0.5                                    | <0.5                                                                                             |

|                                                 | d14-p-terphenyl (Surrogate) |
|-------------------------------------------------|-----------------------------|
| PAH (Polynuclear Aromatic Hydrocarbons) in Soil |                             |

Surrogates

Ethion

Azinphos-methyl (Guthion)

2-fluorobiphenyl (Surrogate)

| PAH (Polynuclear Aromatic Hydrocarbons) in Sol | AH (Polynuclear Aromatic Hydrocarbons) in Soil |  |       | Metho | od: ME-(AU)-[ENV]AN420 |
|------------------------------------------------|------------------------------------------------|--|-------|-------|------------------------|
| Sample Number                                  | Parameter                                      |  | Units | LOR   | Result                 |
| LB205134.001                                   | 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                   |

<0.2

<0.2

85

90

mg/kg

mg/kg

%

%

0.2

0.2

-



## **METHOD BLANKS**

## SE209082 R0

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 Paran Units LOR Result LB205134.001 Indeno(1,2,3-cd)pyrene mg/kg 0.1 < 0.1 Dibenzo(ah)anthracene mg/kg 0.1 <0.1 0.1 <0.1 Benzo(ghi)perylene mg/kg Total PAH (18) mg/kg 0.8 < 0.8 Surrogates d5-nitrobenzene (Surrogate) % 85 2-fluorobiphenyl (Surrogate) % 85 90 d14-p-terphenyl (Surrogate) % -Method: ME-(AU)-[ENV]AN420 PCBs in Soil Sample Numb Result Parameter LOR LB205134.001 Arochlor 1016 0.2 <0.2 mg/kg Arochlor 1221 mg/kg 0.2 <0.2 Arochlor 1232 mg/kg 0.2 <0.2 Arochlor 1242 0.2 <0.2 mg/kg Arochlor 1248 mg/kg 0.2 < 0.2 Arochlor 1254 mg/kg 0.2 <0.2 Arochlor 1260 0.2 <0.2 mg/kg Arochlor 1262 mg/kg 0.2 < 0.2 Arochlor 1268 0.2 <0.2 mg/kg Total PCBs (Arochlors) mg/kg <1 1 Surrogates Tetrachloro-m-xylene (TCMX) (Surrogate) % 102 Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Method: ME-(AU)-[ENV]AN040/AN320 LOR Sample Number Result LB205303.001 Arsenic, As mg/kg 1 <1 Cadmium, Cd mg/kg 0.3 <0.3 Chromium, Cr 0.5 <0.5 mg/kg 0.5 <0.5 Copper, Cu mg/kg Nickel, Ni mg/kg 0.5 <0.5 Lead, Pb <1 mg/kg 1 2 <2.0 Zinc, Zn mg/kg TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403 Result Sample Number Units Parameter LOR LB205134.001 TRH C10-C14 20 <20 mg/kg TRH C15-C28 mg/kg 45 <45 TRH C29-C36 mg/kg 45 <45 TRH C37-C40 100 <100 mg/kg TRH C10-C36 Total mg/kg 110 <110 Method: ME-(AU)-[ENV]AN433 VOC's in Soil Sample Numb Units Result Parameter LOR LB205133.001 Monocyclic Aromatic Benzene mg/kg 0.1 <0.1 Hvdrocarbons Toluene mg/kg 0.1 < 0.1 Ethylbenzene 0.1 <0.1 mg/kg 0.2 <0.2 m/p-xylene mg/kg o-xylene mg/kg 0.1 < 0.1 Polycyclic VOCs Naphthalene 0.1 <0.1 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) 73 % d8-toluene (Surrogate) % 76 Bromofluorobenzene (Surrogate) % 78 Totals Total BTEX 0.6 <0.6 mg/kg Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 Sample Number Result Units Parameter LOR LB205133.001 TRH C6-C9 mg/kg 20 <20 Surrogates d4-1,2-dichloroethane (Surrogate) 73 %



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.

### Mercury in Soil

| Mercury in Soil Method: ME-(AU)-( |              |           |            |             |               |            |       |
|-----------------------------------|--------------|-----------|------------|-------------|---------------|------------|-------|
| Original                          | Duplicate    | Parameter | Units LOR  | Original    | Duplicate     | Criteria % | RPD % |
| SE209074.025                      | LB205314.014 | Mercury   | mg/kg 0.05 | 0.012532888 | 60.0095890066 | 200        | 0     |
| SE209082.004                      | LB205314.024 | Mercury   | mg/kg 0.05 | <0.05       | <0.05         | 200        | 0     |

#### **Moisture Content**

| Moisture Content |              |            |       |     |             | Metho         | od: ME-(AU)-[ | ENVJAN002 |
|------------------|--------------|------------|-------|-----|-------------|---------------|---------------|-----------|
| Original         | Duplicate    | Parameter  | Units | LOR | Original    | Duplicate     | Criteria %    | RPD %     |
| SE209085.003     | LB205135.011 | % Moisture | %w/w  | 1   | 25          | 25.8780036968 | 34            | 3         |
| SE209109.003     | LB205135.018 | % Moisture | %w/w  | 1   | 7.318789584 | 76.8669527896 | 44            | 6         |

### OC Pesticides in Soil

|             |              |            |                                         |       | 1.05 |          |       | od: ME-(AU)- |   |
|-------------|--------------|------------|-----------------------------------------|-------|------|----------|-------|--------------|---|
| Driginal    | Duplicate    |            | Parameter                               | Units | LOR  | Original |       | Criteria %   |   |
| E209085.004 | LB205134.023 |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Alpha BHC                               | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Lindane                                 | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Heptachlor                              | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Aldrin                                  | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Beta BHC                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Delta BHC                               | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Heptachlor epoxide                      | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | o,p'-DDE                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Alpha Endosulfan                        | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | Gamma Chlordane                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Alpha Chlordane                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | trans-Nonachlor                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | p,p'-DDE                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Dieldrin                                | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | Endrin                                  | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | o,p'-DDD                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | o,p'-DDT                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Beta Endosulfan                         | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | p,p'-DDD                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | p,p'-DDT                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Endosulfan sulphate                     | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Endrin Aldehyde                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Methoxychlor                            | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Endrin Ketone                           | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Isodrin                                 | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Mirex                                   | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Total CLP OC Pesticides                 | mg/kg | 1    | 0        | 0     | 200          | 0 |
|             |              | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -    | 0.149    | 0.158 | 30           | 6 |
| E209109.003 | LB205134.021 |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Alpha BHC                               | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Lindane                                 | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Heptachlor                              | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Aldrin                                  | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Beta BHC                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Delta BHC                               | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Heptachlor epoxide                      | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | o,p'-DDE                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Alpha Endosulfan                        | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | Gamma Chlordane                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Alpha Chlordane                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | trans-Nonachlor                         | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            |                                         |       | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | p,p'-DDE<br>Dialdrin                    | mg/kg |      |          |       |              |   |
|             |              |            | Dieldrin                                | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | Endrin                                  | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | o,p'-DDD                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | o,p'-DDT                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |
|             |              |            | Beta Endosulfan                         | mg/kg | 0.2  | 0        | 0     | 200          | 0 |
|             |              |            | p,p'-DDD                                | mg/kg | 0.1  | 0        | 0     | 200          | 0 |



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.

### OC Pesticides in Soil (continued)

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

| Original     | Duplicate    |            | Parameter                               | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|-----------------------------------------|-------|-----|----------|-----------|------------|-------|
| SE209109.003 | LB205134.021 |            | p,p'-DDT                                | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Endosulfan sulphate                     | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Endrin Aldehyde                         | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Methoxychlor                            | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Endrin Ketone                           | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Isodrin                                 | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Mirex                                   | mg/kg | 0.1 | 0        | 0         | 200        | 0     |
|              |              |            | Total CLP OC Pesticides                 | mg/kg | 1   | 0        | 0         | 200        | 0     |
|              |              | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0.143    | 0.164     | 30         | 14    |

### OP Peeticides in Soil

| OP Pesticides in S | OP Pesticides in Soil Method: ME-(AU)-[EN |            |                                   |       |     |              |               | od: ME-(AU)- | (ENVJAN42 |
|--------------------|-------------------------------------------|------------|-----------------------------------|-------|-----|--------------|---------------|--------------|-----------|
| Original           | Duplicate                                 |            | Parameter                         | Units | LOR | Original     | Duplicate     | Criteria %   | RPD %     |
| SE209085.004       | LB205134.024                              |            | Dichlorvos                        | mg/kg | 0.5 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Dimethoate                        | mg/kg | 0.5 | 0.0042408669 | 90.0007399367 | 200          | 0         |
|                    |                                           |            | Diazinon (Dimpylate)              | mg/kg | 0.5 | 0.0026056713 | 30.0031591239 | 200          | 0         |
|                    |                                           |            | Fenitrothion                      | mg/kg | 0.2 | 0.014219979  | 60.0054469187 | 200          | 0         |
|                    |                                           |            | Malathion                         | mg/kg | 0.2 | 0.001217404  | 30.0026907261 | 200          | 0         |
|                    |                                           |            | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 0            | 0.0038273496  | 200          | 0         |
|                    |                                           |            | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | 0.0329407223 | 30.0310769340 | 200          | 0         |
|                    |                                           |            | Bromophos Ethyl                   | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Methidathion                      | mg/kg | 0.5 | 0.004489881  | 30.0042651391 | 200          | 0         |
|                    |                                           |            | Ethion                            | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Total OP Pesticides*              | mg/kg | 1.7 | 0            | 0             | 200          | 0         |
|                    |                                           | Surrogates | 2-fluorobiphenyl (Surrogate)      | mg/kg | -   | 0.393079911  | 50.4290622642 | 30           | 9         |
|                    |                                           |            | d14-p-terphenyl (Surrogate)       | mg/kg | -   | 0.431343589  | 10.4324566911 | 30           | 0         |
| SE209109.003       | LB205134.021                              |            | Dichlorvos                        | mg/kg | 0.5 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Dimethoate                        | mg/kg | 0.5 | 0            | 0.0010708014  | 200          | 0         |
|                    |                                           |            | Diazinon (Dimpylate)              | mg/kg | 0.5 | 0.082053098  | 50.0547835416 | 200          | 0         |
|                    |                                           |            | Fenitrothion                      | mg/kg | 0.2 | 0.0146332118 | 80.0159853971 | 200          | 0         |
|                    |                                           |            | Malathion                         | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | 0.0058674973 | 30            | 200          | 0         |
|                    |                                           |            | Bromophos Ethyl                   | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Methidathion                      | mg/kg | 0.5 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Ethion                            | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | 0            | 0             | 200          | 0         |
|                    |                                           |            | Total OP Pesticides*              | mg/kg | 1.7 | 0            | 0             | 200          | 0         |
|                    |                                           | Surrogates | 2-fluorobiphenyl (Surrogate)      | mg/kg | -   | 0.437282264  | 80.4591740867 | 30           | 5         |
|                    |                                           |            | d14-p-terphenyl (Surrogate)       | mg/kg | -   | 0.418619466  | 60.4468671377 | 30           | 7         |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

| PAH (Polynuclear | Aromatic Hydrocarbons) in So | Sil Contraction of the second s |       |     |              | Metho        | od: ME-(AU)- | (ENVJAN420 |
|------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|--------------|--------------|--------------|------------|
| Original         | Duplicate                    | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Units | LOR | Original     | Duplicate    | Criteria %   | RPD %      |
| SE209085.004     | LB205134.025                 | Naphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mg/kg | 0.1 | 0.0047111425 | 0.0045554485 | 200          | 0          |
|                  |                              | 2-methylnaphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg | 0.1 | 0.0037703019 | 0.0034989812 | 200          | 0          |
|                  |                              | 1-methylnaphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg | 0.1 | 0.0046497476 | 0.0041428135 | 200          | 0          |
|                  |                              | Acenaphthylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg | 0.1 | 0.0122574609 | 0.0105192714 | 200          | 0          |
|                  |                              | Acenaphthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg | 0.1 | 0.0008980904 | 0.0020889373 | 200          | 0          |
|                  |                              | Fluorene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg | 0.1 | 0.0045711873 | 0.0048799317 | 200          | 0          |
|                  |                              | Phenanthrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg | 0.1 | 0.0305910257 | 0.0316800365 | 200          | 0          |
|                  |                              | Anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg | 0.1 | 0.0295052715 | 0.0307607271 | 200          | 0          |
|                  |                              | Fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg | 0.1 | 0.0600198400 | 0.0615229958 | 195          | 0          |
|                  |                              | Pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mg/kg | 0.1 | 0.0634899540 | 0.0688400504 | 181          | 0          |
|                  |                              | Benzo(a)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg | 0.1 | 0.0456081072 | 0.0443854118 | 200          | 0          |
|                  |                              | Chrysene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg | 0.1 | 0.0469086590 | 0.0441725778 | 200          | 0          |
|                  |                              | Benzo(b&j)fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mg/kg | 0.1 | 0.0469335497 | 0.0465952389 | 200          | 0          |
|                  |                              | Benzo(k)fluoranthene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mg/kg | 0.1 | 0.0440699015 | 0.0415789494 | 200          | 0          |
|                  |                              | Benzo(a)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg | 0.1 | 0.0445801789 | 0.0406396296 | 200          | 0          |
|                  |                              | Indeno(1,2,3-cd)pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mg/kg | 0.1 | 0.0096471472 | 0.0076009934 | 200          | 0          |
|                  |                              | Dibenzo(ah)anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mg/kg | 0.1 | 0.0010090094 | 0.0011030046 | 200          | 0          |
|                  |                              | Benzo(ghi)perylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg/kg | 0.1 | 0.0133295584 | 0.0104231458 | 200          | 0          |
|                  |                              | Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>mg/kg</td><td>0.2</td><td>0</td><td>0</td><td>200</td><td>0</td></lor=0<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mg/kg | 0.2 | 0            | 0            | 200          | 0          |



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.

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) Method: ME-(AU)-[ENV]AN420 Original Duplicate Parameter Units LOR Original Duplicate Criteria % RPD % SE209085.004 LB205134.025 Carcinogenic PAHs. BaP TEQ <LOR=0 TEQ (mg/kg) 0.2 0 0 200 0 Carcinogenic PAHs, BaP TEQ <LOR=LOR mg/kg 0.3 0.242 0.242 134 0 0.242 0.242 134 TEQ (mg/kg) 0.3 0 Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 mg/kg 0.2 0.121 0.121 175 0 TEQ (mg/kg) 0.2 0.121 0.121 175 0 Total PAH (18) 0.8 0 0 200 0 mg/kg 0.41002162050.4119841301 Surrogates d5-nitrobenzene (Surrogate) mg/kg 30 0 2-fluorobiphenyl (Surrogate) 0.39307991150.4290622642 30 9 mg/kg d14-p-terphenyl (Surrogate) 0.43134358910.4324566911 30 0 mg/kg SE209109.003 LB205134.021 Naphthalene mg/kg 0.1 0.00246427850.0025605444 200 0 0.1 2-methylnaphthalene 0.00225580700.0019982427 200 0 mg/kg 1-methylnaphthalene 0.1 0.00221377710.0021734018 200 0 mg/kg 0.00696435480.0079629951 Acenaphthylene mg/kg 0.1 200 0 Acenaphthene 0.1 0.00153099440.0009583908 200 0 mg/kg Fluorene 0.1 0.00243671300.0025694366 200 0 mg/kg Phenanthrene mg/kg 0.1 0.06642957940.0611684949 187 0 0.1 Anthracene 0.06392421620.0592682563 192 0 mg/kg 0.08100571710.0932778389 145 Fluoranthene 0.1 0 mg/kg Pyrene mg/kg 0.1 0.07891191340.0919432731 147 0 Benzo(a)anthracene 0.1\_\_\_\_ 0.04190234350.0710096433 200 0 mg/kg Chrysene 0.04131228090.0724695351 200 0 0.1 mg/kg Benzo(b&i)fluoranthene mg/kg 0.1 0.03836254430.0360520412 200 0 0.1 Benzo(k)fluoranthene mg/kg 0.03423255950.0337905870 200 0 Benzo(a)pyrene 0.1 0.03666936220.0174637909 200 0 mg/kg 0.00543822260.0059330114 Indeno(1.2.3-cd)pyrene ma/ka 0.1 200 0 Dibenzo(ah)anthracene 0.1 0.0009342371 0 200 0 mg/kg 0.00667319020.0065755355 Benzo(ghi)perylene 0.1 200 0 mg/kg Carcinogenic PAHs, BaP TEQ <LOR=0 200 mg/kg 0.2 0 0 0 TEQ (mg/kg) 0.2 0 0 200 0 Carcinogenic PAHs, BaP TEQ <LOR=LOR 0.3 0.242 0.242 134 0 mg/kg 0.242 0.242 TEQ (mg/kg) 0.3 134 0 Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 0.2 0.121 0.121 175 0 mg/kg TEQ (mg/kg) 0.2 0.121 0.121 175 0 Total PAH (18) mg/kg 0.8 0 0 200 0 Surrogates d5-nitrobenzene (Surrogate) 0.38730469580.4205878005 30 8 mg/kg 2-fluorobiphenyl (Surrogate) 0.43728226480.4591740867 30 5 mg/kg d14-p-terphenyl (Surrogate) mg/kg 0.41861946660.4468671377 30 7 od: ME-(AU)-IENVIAN420

PCBs in Soil

| PCBS IN SOIL |              |            |                                         | Meth  | юа: ме-(AU)-[ | ENVJAN420 |           |            |       |
|--------------|--------------|------------|-----------------------------------------|-------|---------------|-----------|-----------|------------|-------|
| Original     | Duplicate    |            | Parameter                               | Units | LOR           | Original  | Duplicate | Criteria % | RPD % |
| SE209085.003 | LB205134.014 |            | Arochlor 1016                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1221                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1232                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1242                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1248                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1254                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1260                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1262                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1268                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Total PCBs (Arochlors)                  | mg/kg | 1             | 0         | 0         | 200        | 0     |
|              |              | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -             | 0.154     | 0.149     | 30         | 3     |
| SE209085.004 | LB205134.022 |            | Arochlor 1016                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1221                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1232                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1242                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1248                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1254                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1260                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1262                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Arochlor 1268                           | mg/kg | 0.2           | 0         | 0         | 200        | 0     |
|              |              |            | Total PCBs (Arochlors)                  | mg/kg | 1             | 0         | 0         | 200        | 0     |
|              |              |            |                                         |       |               |           |           |            |       |



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.

| PCBs in Soil (cont                                                                   | inued)                                    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                             |                                                                                             | Meth                                                                                      | od: ME-(AU)-                                                                    | [ENV]AN4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------|-------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original                                                                             | Duplicate                                 |                      | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOR                                                                                                                                                                         | Original                                                                                    | Duplicate                                                                                 | Criteria %                                                                      | RPD %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SE209085.004                                                                         | LB205134.022                              | Surrogates           | Tetrachloro-m-xylene (TCMX) (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                           | 0.149                                                                                       | 0.158                                                                                     | 30                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SE209109.003                                                                         | LB205134.021                              |                      | Arochlor 1016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1262                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Arochlor 1262                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2                                                                                                                                                                         | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Total PCBs (Arochlors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                           | 0                                                                                           | 0                                                                                         | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           | Surrogotoo           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                                                                                                                           | 0.143                                                                                       | 0.164                                                                                     | 30                                                                              | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           | Surrogates           | Tetrachloro-m-xylene (TCMX) (Surrogate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                           | 0.143                                                                                       |                                                                                           |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                      | Elements in Soil/Wa                       | ste Solids/Materials | by ICPOES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                             | _                                                                                           |                                                                                           | -(AU)-[ENV]A                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Original                                                                             | Duplicate                                 |                      | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOR                                                                                                                                                                         | Original                                                                                    | Duplicate                                                                                 | Criteria %                                                                      | RPD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SE209074.025                                                                         | LB205303.014                              |                      | Arsenic, As                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                           | 2.409733918                                                                                 | 3 3.3128235                                                                               | 65                                                                              | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Cadmium, Cd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.3                                                                                                                                                                         | 0.028052245                                                                                 | 9 0.0320535                                                                               | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Chromium, Cr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5                                                                                                                                                                         | 16.303873398                                                                                | 3023.565450375                                                                            | i 33                                                                            | 36 @                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                      |                                           |                      | Copper, Cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5                                                                                                                                                                         | 4.579414190                                                                                 | 5 6.418242                                                                                | 39                                                                              | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Nickel, Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5                                                                                                                                                                         | 5.695065809                                                                                 | 9 7.605635625                                                                             | 38                                                                              | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Lead, Pb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                           | 13.185015490                                                                                | 0817.734541625                                                                            | 36                                                                              | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Zinc, Zn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                                           | 38.189683876                                                                                | 347.013528375                                                                             | 5 35                                                                            | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SE209082.004                                                                         | LB205303.024                              |                      | Arsenic, As                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                           | 1                                                                                           | 2                                                                                         | 103                                                                             | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Cadmium, Cd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.3                                                                                                                                                                         | <0.3                                                                                        | <0.3                                                                                      | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Chromium, Cr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5                                                                                                                                                                         | 2.5                                                                                         | 5.1                                                                                       | 43                                                                              | 68 @                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                      |                                           |                      | Copper, Cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5                                                                                                                                                                         | 0.6                                                                                         | 1.0                                                                                       | 91                                                                              | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Nickel, Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5                                                                                                                                                                         | <0.5                                                                                        | <0.5                                                                                      | 177                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      | Lead, Pb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                           | 2                                                                                           | 3                                                                                         | 71                                                                              | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                      |                                           |                      | Zinc, Zn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                                           | <2.0                                                                                        | <2.0                                                                                      | 200                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                      |                                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                             |                                                                                             |                                                                                           |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RH (Total Recov                                                                      | erable Hydrocarbons                       | ) in Soil            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                             |                                                                                             | Meth                                                                                      | od: ME-(ALI)-                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| -                                                                                    | erable Hydrocarbons                       | ) in Soil            | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOR                                                                                                                                                                         | Original                                                                                    |                                                                                           | od: ME-(AU)-                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Original                                                                             | Duplicate                                 | ) in Soil            | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOR                                                                                                                                                                         | Original                                                                                    | Duplicate                                                                                 | Criteria %                                                                      | RPD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Original                                                                             |                                           | ) in Soil            | TRH C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20                                                                                                                                                                          | 0                                                                                           | Duplicate<br>0                                                                            | Criteria %<br>200                                                               | RPD<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RH (Total Recov<br>Original<br>SE209085.005                                          | Duplicate                                 | ) in Soll            | TRH C10-C14<br>TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20<br>45                                                                                                                                                                    | 0<br>0                                                                                      | Duplicate<br>0<br>0                                                                       | Criteria %<br>200<br>200                                                        | RPD<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Original                                                                             | Duplicate                                 | ) in Soil            | TRH C10-C14<br>TRH C15-C28<br>TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20<br>45<br>45                                                                                                                                                              | 0 0 0 0                                                                                     | Duplicate<br>0<br>0<br>0                                                                  | Criteria %<br>200<br>200<br>200                                                 | <b>RPD</b><br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Original                                                                             | Duplicate                                 | ) in Soll            | TRH C10-C14<br>TRH C15-C28<br>TRH C29-C36<br>TRH C37-C40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20<br>45<br>45<br>100                                                                                                                                                       | 0<br>0<br>0<br>0                                                                            | Duplicate<br>0<br>0<br>0<br>0                                                             | Criteria %<br>200<br>200<br>200<br>200                                          | RPD<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Original                                                                             | Duplicate                                 | ) in Soll            | TRH C10-C14<br>TRH C15-C28<br>TRH C29-C36<br>TRH C37-C40<br>TRH C10-C36 Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20<br>45<br>45<br>100<br>110                                                                                                                                                | 0<br>0<br>0<br>0<br>0                                                                       | Duplicate 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                           | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200                            | RPD<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Original                                                                             | Duplicate                                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20<br>45<br>45<br>100<br>110<br>210                                                                                                                                         | 0<br>0<br>0<br>0<br>0<br>0                                                                  | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                              | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200                     | RPD<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Original                                                                             | Duplicate                                 | ) In Soll            | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20<br>45<br>45<br>100<br>110<br>210<br>25                                                                                                                                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                        | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200              | RPD<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Original                                                                             | Duplicate                                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20<br>45<br>45<br>100<br>110<br>210<br>25<br>25                                                                                                                             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                              | Duplicate 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                           | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200       | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                                             |
| Original                                                                             | Duplicate                                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90                                                                                                                       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                              | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                     |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120                                                                                                                      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                         |
| Original<br>SE209085.005                                                             | Duplicate                                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20                                                                                                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                             |
| Original                                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14         TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45                                                                                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                             |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C34 (F3)         TRH >C10-C44         TRH C10-C14         TRH C10-C36         TRH C10-C34         TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20                                                                                                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                             |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14         TRH C15-C28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45                                                                                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                             |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C34 (F3)         TRH >C10-C44         TRH C10-C14         TRH C10-C36         TRH C10-C34         TRH C29-C36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45                                                                                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                 |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C36 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C10-C14         TRH C15-C28         TRH C15-C26         TRH C15-C26         TRH C23-C36         TRH C37-C40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>45                                                                                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                 |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 |                      | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110                                                                                      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                 |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH >C14-C14         TRH C15-C28         TRH C37-C40         TRH C37-C40         TRH C37-C40         TRH C10-C36 Total         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mg/kg                                                                                                                                                                                                                                                                 | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210                                                                                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                 |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (G4)         TRH >C14         TRH C15-C28         TRH C37-C40         TRH C37-C40         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C40 Total (F bands)         TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mg/kg                                                                                                                                                                                                                                                 | 20<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25                                                             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria %<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                 |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023                 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH >C14         TRH C15-C28         TRH C29-C36         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mg/kg                                                                                                                                                                                                 | 20<br>45<br>100<br>110<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25                                                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                 |
| Original<br>SE209085.005<br>SE209109.003                                             | Duplicate<br>LB205134.023                 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C37-C40         TRH >C10-C16 (F bands)         TRH >C10-C16 TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                 | 20<br>45<br>100<br>110<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90                                                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                     |
| Original<br>SE209085.005<br>SE209109.003                                             | Duplicate<br>LB205134.023                 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C34-C40 (F4)         TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH C37-C40         TRH >C10-C16 (F bands)         TRH >C10-C16 TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16                                                                                                                                                                                                                                                                                                                                                                                                                        | mg/kg                                                                                                                                                                                                 | 20<br>45<br>100<br>110<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90                                                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 |
| Original<br>SE209085.005<br>SE209109.003<br>SE209109.003                             | Duplicate<br>LB205134.023                 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C36 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C14-C40 (F4)         TRH C15-C28         TRH C29-C36         TRH C29-C36         TRH C10-C36 Total         TRH C10-C36 Total         TRH C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C34 (F3)         TRH >C34-C40 (F4)                                                                                                                                                             | mg/kg                                                                 | 20<br>45<br>100<br>110<br>25<br>25<br>90<br>120<br>20<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120                                                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 |
| Original<br>SE209085.005                                                             | Duplicate<br>LB205134.023<br>LB205134.021 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C36 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (G4)         TRH >C16-C34 (C40)         TRH >C10-C14         TRH C15-C28         TRH C10-C36 Total         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C36 Total | mg/kg           mg/kg | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>20<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 |
| Original<br>SE209085.005<br>SE209109.003<br>SE209109.003<br>OC's In Soll<br>Original | Duplicate<br>LB205134.023<br>LB205134.021 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C36 Total (F bands)         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C16-C34 (F4)         TRH >C16-C36 Total         TRH C37-C40         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16         TRH >C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C34 (F3)         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16         TRH >C10-C34 (F3)         TRH >C34-C40 (F4)                                                                                                                                                                                                              | mg/kg                                                                                                                                 | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>120                                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                         |
| Original<br>SE209085.005<br>SE209109.003<br>SE209109.003                             | Duplicate<br>LB205134.023<br>LB205134.021 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C36 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C10-C14         TRH C10-C14         TRH C10-C36 Total         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C34 (F3)         TRH >C10-C40 Total (F bands)                                                                                                                                                                                                                                                                                                                                                 | mg/kg                                                                                                                                 | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>120                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                     |
| Original<br>SE209085.005<br>SE209109.003<br>SE209109.003<br>OC's In Soll<br>Original | Duplicate<br>LB205134.023<br>LB205134.021 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C40 Total (F bands)         TRH >C10-C16         TRH >C10-C16-Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C10-C14         TRH >C10-C14         TRH C15-C28         TRH C10-C14         TRH C10-C36 Total         TRH C29-C36         TRH >C10-C40 Total (F bands)         TRH >C10-C40 Total (F bands)         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C40 (F4)                                                                                                                                                                                                                                                                                                                                                                          | mg/kg                                                                 | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>120<br>20<br>0.1<br>0.1<br>0.1<br>0.1<br>0.2 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                             |
| Original<br>SE209085.005<br>SE209109.003<br>SE209109.003                             | Duplicate<br>LB205134.023<br>LB205134.021 | TRH F Bands          | TRH C10-C14         TRH C15-C28         TRH C29-C36         TRH C37-C40         TRH >C10-C36 Total         TRH >C10-C36 Total (F bands)         TRH >C10-C16         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C16-C34 (F3)         TRH >C16-C34 (F3)         TRH >C10-C14         TRH C10-C14         TRH C10-C36 Total         TRH C10-C36 Total         TRH >C10-C36 Total         TRH >C10-C16         TRH >C10-C16 - Naphthalene (F2)         TRH >C10-C34 (F3)         TRH >C10-C40 Total (F bands)                                                                                                                                                                                                                                                                                                                                                 | mg/kg                                                                                                                                 | 20<br>45<br>45<br>100<br>210<br>25<br>25<br>90<br>120<br>20<br>45<br>45<br>45<br>45<br>100<br>110<br>210<br>25<br>25<br>90<br>120<br>20<br>120                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Duplicate<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | Criteria % 200 200 200 200 200 200 200 200 200 20                               | RPD           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                             |



TRH C6-C10 minus BTEX (F1)

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

#### VOC's in Soil (continued) Method: ME-(AU)-[ENV]AN433 Original Duplicate Parameter Units LOR Original Duplicate Criteria % RPD % SE209085.003 LB205133.014 Surrogates d8-toluene (Surrogate) mg/kg 8.33769685848.2968818156 50 0 Bromofluorobenzene (Surrogate) mg/kg 9.13013237499.5474623847 50 4 Totals 200 0 Total Xylenes 0.3 0 0 mg/kg Total BTEX mg/kg 0.6 0 0 200 0 SE209109.003 LB205133 021 Monocyclic Benzene 0.1 0 0 200 0 mg/kg Aromatic Toluene 0.1 0 0 200 0 mg/kg 200 Ethylbenzene mg/kg 0.1 0 0 0 m/p-xylene 0.2 0 0 200 0 mg/kg 0.1 0 0 200 0 o-xylene mg/kg Polycyclic Naphthalene mg/kg 0.1 0 0.0078369713 200 0 Surrogates d4-1,2-dichloroethane (Surrogate) 8.98770921417.9836679811 50 12 mg/kg d8-toluene (Surrogate) 8.96528920478.4201984616 50 6 mg/kg Bromofluorobenzene (Surrogate) 9.13932614478.4892651971 mg/kg 50 7 Totals Total Xylenes 0.3 0 0 200 0 mg/kg Total BTEX 0.6 0 0 200 0 mg/kg Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 LOR Original Duplicate Criteria % RPD % Original Duplicate Parameter Units SE209085.003 LB205133.014 TRH C6-C10 25 2.39364953983.2936722459 200 0 mg/kg TRH C6-C9 20 2.01503629492.8682323629 200 0 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) mg/kg 8.03383713258.0450481542 30 0 d8-toluene (Surrogate) 8.33769685848.2968818156 30 0 mg/kg 9.13013237499.5474623847 Bromofluorobenzene (Surrogate) 30 4 mg/kg VPH F Bands Benzene (F0) mg/kg 0.1 0 0 200 0 TRH C6-C10 minus BTEX (F1) 25 2.39364953983.2936722459 200 0 mg/kg SE209109.003 LB205133.021 TRH C6-C10 25 2.33523367862.2624015683 200 0 mg/kg 20 TRH C6-C9 mg/kg 1.96905575711.8914265323 200 0 d4-1,2-dichloroethane (Surrogate) Surrogates 8.98770921417.9836679811 30 12 mg/kg 8.96528920478.4201984616 d8-toluene (Surrogate) 30 6 mg/kg Bromofluorobenzene (Surrogate) mg/kg 9.13932614478.4892651971 30 7 VPH F Bands Benzene (F0) 0.1 0 0 200 0 mg/kg

25

mg/kg

2.33523367862.2624015683

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 |           |       |      |        | N        | /lethod: ME-(A | U)-[ENV]AN312 |
|-----------------|-----------|-------|------|--------|----------|----------------|---------------|
| Sample Number   | Parameter | Units | LOR  | Result | Expected | Criteria %     | Recovery %    |
| LB205314.002    | Mercury   | mg/kg | 0.05 | 0.20   | 0.2      | 70 - 130       | 98            |

| OC Pesticides in §            | Soil             |                                                                                         |                                  |                      |                          | N                      | lethod: ME-(A                                | J)-[ENV]AN42          |
|-------------------------------|------------------|-----------------------------------------------------------------------------------------|----------------------------------|----------------------|--------------------------|------------------------|----------------------------------------------|-----------------------|
| Sample Number                 | r                | Parameter                                                                               | Units                            | LOR                  | Result                   | Expected               | Criteria %                                   | Recovery %            |
| LB205134.002                  |                  | Heptachlor                                                                              | mg/kg                            | 0.1                  | 0.2                      | 0.2                    | 60 - 140                                     | 121                   |
|                               |                  | Aldrin                                                                                  | mg/kg                            | 0.1                  | 0.2                      | 0.2                    | 60 - 140                                     | 125                   |
|                               |                  | Delta BHC                                                                               | mg/kg                            | 0.1                  | 0.2                      | 0.2                    | 60 - 140                                     | 119                   |
|                               |                  | Dieldrin                                                                                | mg/kg                            | 0.2                  | 0.3                      | 0.2                    | 60 - 140                                     | 126                   |
|                               |                  | Endrin                                                                                  | mg/kg                            | 0.2                  | 0.2                      | 0.2                    | 60 - 140                                     | 121                   |
|                               |                  | p,p'-DDT                                                                                | mg/kg                            | 0.1                  | 0.2                      | 0.2                    | 60 - 140                                     | 78                    |
|                               | Surrogates       | Tetrachloro-m-xylene (TCMX) (Surrogate)                                                 | mg/kg                            | -                    | 0.15                     | 0.15                   | 40 - 130                                     | 98                    |
| OP Pesticides in S            | Soil             |                                                                                         |                                  |                      |                          | N                      | /lethod: ME-(A                               | J)-[ENV]AN42          |
| Sample Number                 | r                | Parameter                                                                               | Units                            | LOR                  | Result                   | Expected               | Criteria %                                   | Recovery %            |
| LB205134.002                  |                  | Dichlorvos                                                                              | mg/kg                            | 0.5                  | 1.6                      | 2                      | 60 - 140                                     | 78                    |
|                               |                  | Diazinon (Dimpylate)                                                                    | mg/kg                            | 0.5                  | 1.6                      | 2                      | 60 - 140                                     | 78                    |
|                               |                  | Chlorpyrifos (Chlorpyrifos Ethyl)                                                       | mg/kg                            | 0.2                  | 1.6                      | 2                      | 60 - 140                                     | 81                    |
|                               |                  | Ethion                                                                                  | mg/kg                            | 0.2                  | 1.4                      | 2                      | 60 - 140                                     | 68                    |
|                               | Surrogates       | 2-fluorobiphenyl (Surrogate)                                                            | mg/kg                            | -                    | 0.4                      | 0.5                    | 40 - 130                                     | 84                    |
|                               |                  | d14-p-terphenyl (Surrogate)                                                             | mg/kg                            | -                    | 0.4                      | 0.5                    | 40 - 130                                     | 82                    |
| PAH (Polynuclear              | Aromatic Hydroca | arbons) in Soil                                                                         |                                  |                      |                          | N                      | /lethod: ME-(A                               | J)-[ENV]AN42          |
| Sample Number                 | r                | Parameter                                                                               | Units                            | LOR                  | Result                   | Expected               | Criteria %                                   | Recovery %            |
| LB205134.002                  |                  | Naphthalene                                                                             | mg/kg                            | 0.1                  | 4.4                      | 4                      | 60 - 140                                     | 109                   |
|                               |                  | Acenaphthylene                                                                          | mg/kg                            | 0.1                  | 4.4                      | 4                      | 60 - 140                                     | 111                   |
|                               |                  | Acenaphthene                                                                            | mg/kg                            | 0.1                  | 4.3                      | 4                      | 60 - 140                                     | 107                   |
|                               |                  | Phenanthrene                                                                            | mg/kg                            | 0.1                  | 4.5                      | 4                      | 60 - 140                                     | 112                   |
|                               |                  | Anthracene                                                                              | mg/kg                            | 0.1                  | 4.2                      | 4                      | 60 - 140                                     | 104                   |
|                               |                  | Fluoranthene                                                                            | ma lin                           | 0.1                  | 4.6                      | 4                      | 60 - 140                                     | 114                   |
|                               |                  | Thubianthene                                                                            | mg/kg                            | 0.1                  |                          |                        |                                              | 110                   |
|                               |                  | Pyrene                                                                                  | mg/kg                            | 0.1                  | 4.4                      | 4                      | 60 - 140                                     | 110                   |
|                               |                  |                                                                                         |                                  |                      |                          | 4<br>4                 | 60 - 140<br>60 - 140                         | 110                   |
|                               | Surrogates       | Pyrene                                                                                  | mg/kg                            | 0.1                  | 4.4                      |                        |                                              |                       |
|                               | Surrogates       | Pyrene<br>Benzo(a)pyrene                                                                | mg/kg<br>mg/kg                   | 0.1<br>0.1           | 4.4<br>4.1               | 4                      | 60 - 140                                     | 102                   |
|                               | Surrogates       | Pyrene<br>Benzo(a)pyrene<br>d5-nitrobenzene (Surrogate)                                 | mg/kg<br>mg/kg<br>mg/kg          | 0.1<br>0.1<br>-      | 4.4<br>4.1<br>0.4        | 4<br>0.5               | 60 - 140<br>40 - 130                         | 102<br>77             |
| PCBs in Soil                  | Surrogates       | Pyrene<br>Benzo(a)pyrene<br>d5-nitrobenzene (Surrogate)<br>2-fluorobiphenyl (Surrogate) | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | 0.1<br>0.1<br>-<br>- | 4.4<br>4.1<br>0.4<br>0.4 | 4<br>0.5<br>0.5<br>0.5 | 60 - 140<br>40 - 130<br>40 - 130             | 102<br>77<br>85<br>80 |
| PCBs in Soil<br>Sample Number |                  | Pyrene<br>Benzo(a)pyrene<br>d5-nitrobenzene (Surrogate)<br>2-fluorobiphenyl (Surrogate) | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | 0.1<br>0.1<br>-<br>- | 4.4<br>4.1<br>0.4<br>0.4 | 4<br>0.5<br>0.5<br>0.5 | 60 - 140<br>40 - 130<br>40 - 130<br>40 - 130 | 102<br>77<br>85<br>80 |

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

| Total Recoverable | Elements in Soil/V | Vaste Solids/Materials by ICPOES |       |     |        | Method:  | ME-(AU)-[EN\  | /JAN040/AN320 |
|-------------------|--------------------|----------------------------------|-------|-----|--------|----------|---------------|---------------|
| Sample Number     |                    | Parameter                        | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB205303.002      |                    | Arsenic, As                      | mg/kg | 1   | 320    | 318.22   | 80 - 120      | 100           |
|                   |                    | Cadmium, Cd                      | mg/kg | 0.3 | 4.9    | 5.41     | 80 - 120      | 90            |
|                   |                    | Chromium, Cr                     | mg/kg | 0.5 | 37     | 38.31    | 80 - 120      | 96            |
|                   |                    | Copper, Cu                       | mg/kg | 0.5 | 290    | 290      | 80 - 120      | 102           |
|                   |                    | Nickel, Ni                       | mg/kg | 0.5 | 180    | 187      | 80 - 120      | 99            |
|                   |                    | Lead, Pb                         | mg/kg | 1   | 92     | 89.9     | 80 - 120      | 102           |
|                   |                    | Zinc, Zn                         | mg/kg | 2   | 270    | 273      | 80 - 120      | 99            |
| TRH (Total Recove | rable Hydrocarbo   | ns) in Soil                      |       |     |        | N        | Method: ME-(A | U)-[ENV]AN403 |
| Sample Number     |                    | Parameter                        | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB205134.002      |                    | TRH C10-C14                      | mg/kg | 20  | 33     | 40       | 60 - 140      | 83            |
|                   |                    | TRH C15-C28                      | mg/kg | 45  | <45    | 40       | 60 - 140      | 95            |
|                   |                    | TRH C29-C36                      | mg/kg | 45  | <45    | 40       | 60 - 140      | 75            |
|                   | TRH F Bands        | TRH >C10-C16                     | mg/kg | 25  | 31     | 40       | 60 - 140      | 78            |
|                   |                    | TRH >C16-C34 (F3)                | mg/kg | 90  | <90    | 40       | 60 - 140      | 83            |
|                   |                    | TRH >C34-C40 (F4)                | mg/kg | 120 | <120   | 20       | 60 - 140      | 120           |
| VOC's in Soil     |                    |                                  |       |     |        | N        | vethod: ME-(A | U)-[ENV]AN43  |

30/7/2020



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 % LB205133.002 60 - 140 Monocyclic Benzene mg/kg 0.1 4.3 5 86 Aromatic Toluene mg/kg 0.1 4.3 5 60 - 140 87 0.1 4.4 60 - 140 89 Ethylbenzene mg/kg 5 m/p-xylene mg/kg 0.2 8.6 10 60 - 140 86 o-xylene mg/kg 0.1 4.4 5 60 - 140 88 Surrogates d4-1,2-dichloroethane (Surrogate) 9.0 10 70 - 130 90 mg/kg 70 - 130 d8-toluene (Surrogate) 8.8 10 88 mg/kg Bromofluorobenzene (Surrogate) mg/kg 9.4 10 70 - 130 94 Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433 Sample Number Units LOR Result Expected Criteria % Recovery % Parameter LB205133.002 TRH C6-C10 mg/kg 25 66 92.5 60 - 140 72 TRH C6-C9 mg/kg 20 60 80 60 - 140 75 Surrogates d4-1,2-dichloroethane (Surrogate) 9.0 10 70 - 130 90 mg/kg 70 - 130 94 Bromofluorobenzene (Surrogate) mg/kg 9.4 10 VPH F Bands TRH C6-C10 minus BTEX (F1) mg/kg 25 40 62.5 60 - 140 64



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

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 |               |           |       |      |        | Mett     | nod: ME-(Al | J)-[ENV]AN312 |
|-----------------|---------------|-----------|-------|------|--------|----------|-------------|---------------|
| QC Sample       | Sample Number | Parameter | Units | LOR  | Result | Original | Spike       | Recovery%     |
| SE209064.001    | LB205314.004  | Mercury   | mg/kg | 0.05 | 0.25   | 0.07     | 0.2         | 91            |

### OC Pesticides in Soil

|                 | · · · · ·     |            |                                         |       | 1.05 |          |       |                  |
|-----------------|---------------|------------|-----------------------------------------|-------|------|----------|-------|------------------|
| C Sample        | Sample Number |            | Parameter                               | Units | LOR  | Original | Spike | Recovery%        |
| 209082.001      | LB205134.022  |            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Alpha BHC                               | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Lindane                                 | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Heptachlor                              | mg/kg | 0.1  | <0.1     | 0.2   | 130              |
|                 |               |            | Aldrin                                  | mg/kg | 0.1  | <0.1     | 0.2   | 131              |
|                 |               |            | Beta BHC                                | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Delta BHC                               | mg/kg | 0.1  | <0.1     | 0.2   | 126              |
|                 |               |            | Heptachlor epoxide                      | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | o,p'-DDE                                | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Alpha Endosulfan                        | mg/kg | 0.2  | <0.2     | -     | -                |
|                 |               |            | Gamma Chlordane                         | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Alpha Chlordane                         | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | trans-Nonachlor                         | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | p,p'-DDE                                | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Dieldrin                                | mg/kg | 0.2  | <0.2     | 0.2   | 135              |
|                 |               |            | Endrin                                  | mg/kg | 0.2  | <0.2     | 0.2   | 131              |
|                 |               |            | o,p'-DDD                                | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | o,p'-DDT                                | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Beta Endosulfan                         | mg/kg | 0.2  | <0.2     | -     | -                |
|                 |               |            | p,p'-DDD                                | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | p,p'-DDT                                | mg/kg | 0.1  | <0.1     | 0.2   | 87               |
|                 |               |            | Endosulfan sulphate                     | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Endrin Aldehyde                         | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Methoxychlor                            | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Endrin Ketone                           | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Isodrin                                 | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Mirex                                   | mg/kg | 0.1  | <0.1     | -     | -                |
|                 |               |            | Total CLP OC Pesticides                 | mg/kg | 1    | <1       | -     | -                |
|                 | -             | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -    | 0.16     | -     | 104              |
| Pesticides in § | Soil          |            |                                         |       |      |          | М     | ethod: ME-(AU)-[ |

#### **OP Pesticides in Soil**

|                |                                  |                                   |       |     |          |       |                  | -    |
|----------------|----------------------------------|-----------------------------------|-------|-----|----------|-------|------------------|------|
| QC Sample      | Sample Number                    | Parameter                         | Units | LOR | Original | Spike | Recovery%        |      |
| SE209082.001   | LB205134.023                     | Dichlorvos                        | mg/kg | 0.5 | <0.5     | 2     | 113              |      |
|                |                                  | Dimethoate                        | mg/kg | 0.5 | <0.5     | -     | -                |      |
|                |                                  | Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5     | 2     | 100              |      |
|                |                                  | Fenitrothion                      | mg/kg | 0.2 | <0.2     | -     | -                |      |
|                |                                  | Malathion                         | mg/kg | 0.2 | <0.2     | -     | -                |      |
|                |                                  | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2     | 2     | 108              |      |
|                |                                  | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2     | -     | -                |      |
|                |                                  | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2     | -     | -                |      |
|                |                                  | Methidathion                      | mg/kg | 0.5 | <0.5     | -     | -                |      |
|                |                                  | Ethion                            | mg/kg | 0.2 | <0.2     | 2     | 75               |      |
|                |                                  | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2     | -     | -                |      |
|                |                                  | Total OP Pesticides*              | mg/kg | 1.7 | <1.7     | -     | -                |      |
|                | Surrogates                       | 2-fluorobiphenyl (Surrogate)      | mg/kg | -   | 0.4      | -     | 82               |      |
|                |                                  | d14-p-terphenyl (Surrogate)       | mg/kg | -   | 0.4      | -     | 88               |      |
| AH (Polynuclea | r Aromatic Hydrocarbons) in Soil |                                   |       |     |          | M     | ethod: ME-(AU)-[ | (ENV |
| QC Sample      | Sample Number                    | Parameter                         | Units | LOR | Original | Spike | Recovery%        |      |
| SE209082.001   | LB205134.023                     | Naphthalene                       | mg/kg | 0.1 | <0.1     | 4     | 129              |      |
|                |                                  | 2-methylnaphthalene               | mg/kg | 0.1 | <0.1     | -     | -                |      |

#### 2-methylna mg/kg 1-methylnaphthalene mg/kg 0.1 <0.1 Acenaphthylene 0.1 <0.1 4 132 mg/kg <0.1 124 Acenaphthene mg/kg 0.1 4 Fluorene mg/kg 0.1 <0.1 4 128 Phenanthrene 0.1 <0.1 mg/kg



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 | Original | Spike | Recovery% |
|--------------|---------------|--------------------------------------------------------------------------------------------------------------------------------|-------------|-----|----------|-------|-----------|
| SE209082.001 | LB205134.023  | Anthracene                                                                                                                     | mg/kg       | 0.1 | <0.1     | 4     | 126       |
|              |               | Fluoranthene                                                                                                                   | mg/kg       | 0.1 | 0.2      | 4     | 129       |
|              |               | Pyrene                                                                                                                         | mg/kg       | 0.1 | 0.2      | 4     | 134       |
|              |               | 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     | 4     | 123       |
|              |               | 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< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>-</td><td>-</td></lor=0<>         | TEQ (mg/kg) | 0.2 | <0.2     | -     | -         |
|              |               | Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>&lt;0.3</td><td>-</td><td>-</td></lor=lor<>     | TEQ (mg/kg) | 0.3 | <0.3     | -     | -         |
|              |               | Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>&lt;0.2</td><td>-</td><td>-</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2     | -     | -         |
|              |               | Total PAH (18)                                                                                                                 | mg/kg       | 0.8 | <0.8     | -     | -         |
|              | Surrogates    | d5-nitrobenzene (Surrogate)                                                                                                    | mg/kg       | -   | 0.4      | -     | 78        |
|              |               | 2-fluorobiphenyl (Surrogate)                                                                                                   | mg/kg       | -   | 0.4      | -     | 82        |
|              |               | d14-p-terphenyl (Surrogate)                                                                                                    | mg/kg       | -   | 0.4      | -     | 88        |

| QC Sample    | Sample Number |            | Parameter                               | Units | LOR | Original | Spike | Recovery% |
|--------------|---------------|------------|-----------------------------------------|-------|-----|----------|-------|-----------|
| SE209082.001 | LB205134.023  |            | 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     | 0.4   | 136       |
|              |               |            | Arochlor 1262                           | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |            | Arochlor 1268                           | mg/kg | 0.2 | <0.2     | -     | -         |
|              |               |            | Total PCBs (Arochlors)                  | mg/kg | 1   | <1       | -     | -         |
|              |               | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0        | -     | 105       |

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

| Fotal Recoverab | le Elements in Soil/Waste Solid | Is/Materials by ICPOES |       |     |        | Method: ME | -(AU)-[ENV] | JAN040/AN320 |
|-----------------|---------------------------------|------------------------|-------|-----|--------|------------|-------------|--------------|
| QC Sample       | Sample Number                   | Parameter              | Units | LOR | Result | Original   | Spike       | Recovery%    |
| SE209064.001 LE | LB205303.004                    | Arsenic, As            | mg/kg | 1   | 44     | 7          | 50          | 74           |
|                 |                                 | Cadmium, Cd            | mg/kg | 0.3 | 36     | <0.3       | 50          | 72           |
|                 |                                 | Chromium, Cr           | mg/kg | 0.5 | 56     | 24         | 50          | 64 ④         |
|                 |                                 | Copper, Cu             | mg/kg | 0.5 | 78     | 44         | 50          | 67 ④         |
|                 |                                 | Nickel, Ni             | mg/kg | 0.5 | 46     | 6.2        | 50          | 79           |
|                 |                                 | Lead, Pb               | mg/kg | 1   | 55     | 19         | 50          | 72           |
|                 |                                 | Zinc. Zn               | ma/ka | 2   | 68     | 32         | 50          | 71           |

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403 QC Sample Sample Number LOR Result Spike Recovery% Units Original Parameter SE209082.001 LB205134.022 TRH C10-C14 mg/kg 20 64 <20 40 128 TRH C15-C28 45 <45 <45 40 85 mg/kg TRH C29-C36 45 <45 <45 40 88 mg/kg TRH C37-C40 mg/kg 100 <100 <100 TRH C10-C36 Total 110 <110 <110 mg/kg TRH >C10-C40 Total (F bands) 210 <210 <210 mg/kg TRH F Bands TRH >C10-C16 mg/kg 25 68 <25 40 135 TRH >C10-C16 - Naphthalene (F2) 25 68 <25 mg/kg TRH >C16-C34 (F3) 90 <90 <90 40 mg/kg 85 TRH >C34-C40 (F4) mg/kg 120 <120 <120 Method: ME-(AU)-[ENV]AN433

VOC's in Soil

| QC Sample    | Sample Number | 1          | Parameter    | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|------------|--------------|-------|-----|--------|----------|-------|-----------|
| SE209055.001 | LB205133.004  | Monocyclic | Benzene      | mg/kg | 0.1 | 3.6    | <0.1     | 5     | 73        |
|              |               | Aromatic   | Toluene      | mg/kg | 0.1 | 3.9    | <0.1     | 5     | 79        |
|              |               |            | Ethylbenzene | mg/kg | 0.1 | 4.1    | <0.1     | 5     | 81        |
|              |               |            | m/p-xylene   | mg/kg | 0.2 | 7.9    | <0.2     | 10    | 79        |
|              |               |            | o-xylene     | mg/kg | 0.1 | 4.0    | <0.1     | 5     | 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.

#### Method: ME-(AU)-[ENV]AN433 VOC's in Soil (continued) QC Sample Sample Number Original Spike Recovery% Parameter Units LOR Result SE209055.001 LB205133.004 Polycyclic Naphthalene mg/kg 0.1 <0.1 <0.1 Surrogates d4-1,2-dichloroethane (Surrogate) mg/kg 8.1 7.8 10 81 d8-toluene (Surrogate) 8.2 8.4 10 82 mg/kg Bromofluorobenzene (Surrogate) mg/kg 8.4 9.3 10 84 Totals Total Xylenes 0.3 12 <0.3 mg/kg --Total BTEX 0.6 24 <0.6 mg/kg Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENVIAN433 Result Original Spike Recovery% QC Sample Sample Number LOR Units Parameter SE209055.001 LB205133.004 TRH C6-C10 25 62 <25 92.5 67 mg/kg TRH C6-C9 20 56 <20 70 80 mg/kg Surrogates d4-1,2-dichloroethane (Surrogate) mg/kg 8.1 7.8 10 81 d8-toluene (Surrogate) mg/kg 8.2 8.4 10 82 Bromofluorobenzene (Surrogate) 8.4 9.3 84 mg/kg -VPH F 3.6 Benzene (F0) mg/kg 0.1 < 0.1 Bands TRH C6-C10 minus BTEX (F1) mg/kg 25 39 <25 62.5 62



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 end of this report for failure reasons.

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.
- 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.
- 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.
- O LOR was raised due to dilution of significantly high concentration of analyte in sample.
- Image: Image:
- Recovery failed acceptance criteria due to sample heterogeneity.
- <sup>®</sup> LOR was raised due to high conductivity of the sample (required dilution).
- t Refer to relevant report comments for further information.

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# STATEMENT OF QA/QC PERFORMANCE

| CLIENT DETAILS | ·                                                  | LABORATORY DETAI | ILS                                          |
|----------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager          | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
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| Email          | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference    | SE208846A R0                                 |
| Order Number   | E24724.E02                                         | Date Received    | 21 Jul 2020                                  |
| Samples        | 17                                                 | Date Reported    | 28 Jul 2020                                  |
|                |                                                    |                  |                                              |

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:

| Alkalinity in Soil                                                  | 2 items                                                                                                                                                            |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductivity and TDS by Calculation - Soil                          | 5 items                                                                                                                                                            |
| pH in soil (1:5)                                                    | 5 items                                                                                                                                                            |
| Soluble Anions (1:5) in Soil by Ion Chromatography                  | 5 items                                                                                                                                                            |
| Conductivity and TDS by Calculation - Soil                          | 5 items                                                                                                                                                            |
| Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 3 items                                                                                                                                                            |
|                                                                     | Conductivity and TDS by Calculation - Soil<br>pH in soil (1:5)<br>Soluble Anions (1:5) in Soil by Ion Chromatography<br>Conductivity and TDS by Calculation - Soil |

SAMPLE SUMMARY

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Environment, Health and Safety

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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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

| Alkalinity in Soil           |                                |                      |                            |                            |                |              | Method: ME-(AU             | )-[ENV]AN002/AN135         |
|------------------------------|--------------------------------|----------------------|----------------------------|----------------------------|----------------|--------------|----------------------------|----------------------------|
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
| BH3M_2.8-2.9                 | SE208846A.007                  | LB204996             | 13 Jul 2020                | 21 Jul 2020                | 20 Jul 2020    | 23 Jul 2020† | 06 Aug 2020                | 27 Jul 2020                |
| BH4M_4.9-5.0                 | SE208846A.011                  | LB204996             | 14 Jul 2020                | 21 Jul 2020                | 21 Jul 2020    | 23 Jul 2020† | 06 Aug 2020                | 27 Jul 2020                |
| BH2_1.9-2.0                  | SE208846A.015                  | LB204996             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 23 Jul 2020  | 06 Aug 2020                | 27 Jul 2020                |
| BH2_2.9-3.0                  | SE208846A.016                  | LB204996             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 23 Jul 2020  | 06 Aug 2020                | 27 Jul 2020                |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB204996             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 23 Jul 2020  | 06 Aug 2020                | 27 Jul 2020                |
| Conductivity and TDS by Ca   | Iculation - Soil               |                      |                            |                            |                |              | Method:                    | ME-(AU)-[ENV]AN106         |
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
| BH3M_2.8-2.9                 | SE208846A.007                  | LB205068             | 13 Jul 2020                | 21 Jul 2020                | 20 Jul 2020    | 24 Jul 2020† | 20 Jul 2020                | 27 Jul 2020†               |
| BH4M_4.9-5.0                 | SE208846A.011                  | LB205068             | 14 Jul 2020                | 21 Jul 2020                | 21 Jul 2020    | 24 Jul 2020† | 21 Jul 2020                | 27 Jul 2020†               |
| BH2_1.9-2.0                  | SE208846A.015                  | LB205068             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 23 Jul 2020                | 27 Jul 2020†               |
| BH2_2.9-3.0                  | SE208846A.016                  | LB205068             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 23 Jul 2020                | 27 Jul 2020†               |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB205068             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 23 Jul 2020                | 27 Jul 2020†               |
| 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                   |
| BH3M_2.8-2.9                 | SE208846A.007                  | LB205095             | 13 Jul 2020                | 21 Jul 2020                | 10 Aug 2020    | 24 Jul 2020  | 10 Aug 2020                | 27 Jul 2020                |
| BH4M_4.9-5.0                 | SE208846A.011                  | LB205095             | 14 Jul 2020                | 21 Jul 2020                | 11 Aug 2020    | 24 Jul 2020  | 11 Aug 2020                | 27 Jul 2020                |
| BH2_1.9-2.0                  | SE208846A.015                  | LB205095             | 16 Jul 2020                | 21 Jul 2020                | 13 Aug 2020    | 24 Jul 2020  | 13 Aug 2020                | 27 Jul 2020                |
| BH2_2.9-3.0                  | SE208846A.016                  | LB205095             | 16 Jul 2020                | 21 Jul 2020                | 13 Aug 2020    | 24 Jul 2020  | 13 Aug 2020                | 27 Jul 2020                |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB205095             | 16 Jul 2020                | 21 Jul 2020                | 13 Aug 2020    | 24 Jul 2020  | 13 Aug 2020                | 27 Jul 2020                |
| Moisture Content             |                                |                      |                            |                            |                |              | Method:                    | ME-(AU)-[ENV]AN002         |
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
| BH2_1.9-2.0                  | SE208846A.015                  | LB205093             | 16 Jul 2020                | 21 Jul 2020                | 30 Jul 2020    | 24 Jul 2020  | 29 Jul 2020                | 27 Jul 2020                |
| BH2_2.9-3.0                  | SE208846A.016                  | LB205093             | 16 Jul 2020                | 21 Jul 2020                | 30 Jul 2020    | 24 Jul 2020  | 29 Jul 2020                | 27 Jul 2020                |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB205093             | 16 Jul 2020                | 21 Jul 2020                | 30 Jul 2020    | 24 Jul 2020  | 29 Jul 2020                | 27 Jul 2020                |
| pH in soil (1:5)             |                                |                      |                            |                            |                |              |                            | ME-(AU)-[ENV]AN101         |
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
| BH3M_2.8-2.9                 | SE208846A.007                  | LB205068             | 13 Jul 2020                | 21 Jul 2020                | 20 Jul 2020    | 24 Jul 2020† | 25 Jul 2020                | 24 Jul 2020                |
| BH4M 4.9-5.0                 | SE208846A.011                  | LB205068             | 14 Jul 2020                | 21 Jul 2020                | 21 Jul 2020    | 24 Jul 2020† | 25 Jul 2020                | 24 Jul 2020                |
| BH2_1.9-2.0                  | SE208846A.015                  | LB205068             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 25 Jul 2020                | 24 Jul 2020                |
| BH2_2.9-3.0                  | SE208846A.016                  | LB205068             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 25 Jul 2020                | 24 Jul 2020                |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB205068             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 25 Jul 2020                | 24 Jul 2020                |
| Soil Texture (AS4419)        |                                |                      |                            |                            |                |              | Method:                    | ME-(AU)-[ENV]AN051         |
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
| BH3M_2.8-2.9                 | SE208846A.007                  | LB205036             | 13 Jul 2020                | 21 Jul 2020                | 09 Jan 2021    | 23 Jul 2020  | 09 Jan 2021                | 28 Jul 2020                |
| BH4M_4.9-5.0                 | SE208846A.011                  | LB205036             | 14 Jul 2020                | 21 Jul 2020                | 10 Jan 2021    | 23 Jul 2020  | 10 Jan 2021                | 28 Jul 2020                |
| BH2_1.9-2.0                  | SE208846A.015                  | LB205036             | 16 Jul 2020                | 21 Jul 2020                | 12 Jan 2021    | 23 Jul 2020  | 12 Jan 2021                | 28 Jul 2020                |
| BH2_2.9-3.0                  | SE208846A.016                  | LB205036             | 16 Jul 2020                | 21 Jul 2020                | 12 Jan 2021    | 23 Jul 2020  | 12 Jan 2021                | 28 Jul 2020                |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB205036             | 16 Jul 2020                | 21 Jul 2020                | 12 Jan 2021    | 23 Jul 2020  | 12 Jan 2021                | 28 Jul 2020                |
| Soluble Anions (1:5) in Soil | by Ion Chromatography          |                      |                            |                            |                |              | Method:                    | ME-(AU)-[ENV]AN245         |
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
| BH3M_2.8-2.9                 | SE208846A.007                  | LB205060             | 13 Jul 2020                | 21 Jul 2020                | 20 Jul 2020    | 24 Jul 2020† | 21 Aug 2020                | 27 Jul 2020                |
| BH4M_4.9-5.0                 | SE208846A.011                  | LB205060             | 14 Jul 2020                | 21 Jul 2020                | 21 Jul 2020    | 24 Jul 2020† | 21 Aug 2020                | 27 Jul 2020                |
| BH2_1.9-2.0                  | SE208846A.015                  | LB205060             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 21 Aug 2020                | 27 Jul 2020                |
| BH2_2.9-3.0                  | SE208846A.016                  | LB205060             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 21 Aug 2020                | 27 Jul 2020                |
| BH4M_4.4-4.5                 | SE208846A.017                  | LB205060             | 16 Jul 2020                | 21 Jul 2020                | 23 Jul 2020    | 24 Jul 2020† | 21 Aug 2020                | 27 Jul 2020                |
| Total Recoverable Elements   | in Soil/Waste Solids/Mate      | erials by ICPOES     |                            |                            |                |              | Method: ME-(AU             | )-[ENV]AN040/AN320         |
| Sample Name                  | Sample No.                     | QC Ref               | Sampled                    | Received                   | Extraction Due | Extracted    | Analysis Due               | Analysed                   |
|                              | SE208846A.007                  | LB205033             | 13 Jul 2020                | 21 Jul 2020                | 09 Jan 2021    | 23 Jul 2020  | 09 Jan 2021                | 28 Jul 2020                |
| BH3M_2.8-2.9                 |                                |                      |                            |                            | 10 Jan 2021    | 22 101 2020  | 40.1 0004                  |                            |
| BH3M_2.8-2.9<br>BH4M_4.9-5.0 | SE208846A.011                  | LB205033             | 14 Jul 2020                | 21 Jul 2020                | 10 Jan 2021    | 23 Jul 2020  | 10 Jan 2021                | 28 Jul 2020                |
|                              | SE208846A.011<br>SE208846A.015 | LB205033<br>LB205033 | 14 Jul 2020<br>16 Jul 2020 | 21 Jul 2020<br>21 Jul 2020 | 12 Jan 2021    | 23 Jul 2020  | 10 Jan 2021<br>12 Jan 2021 | 28 Jul 2020<br>28 Jul 2020 |
| BH4M_4.9-5.0                 |                                |                      |                            |                            |                |              |                            |                            |



## **SURROGATES**

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

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

No surrogates were required for this job.



# **METHOD BLANKS**

## SE208846A R0

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.

| Alkalinity in Soil |                                    |       | Method: ME- | (AU)-[ENV]AN002/AN135 |
|--------------------|------------------------------------|-------|-------------|-----------------------|
| Sample Number      | Parameter                          | Units | LOR         | Result                |
| LB204996.001       | Total Alkalinity as CaCO3 in Soil* | mg/kg | 25          | <25                   |

#### Conductivity and TDS by Calculation - Soil

| Conductivity and TDS by Calculation - Soil |                                                |       | Met | hod: ME-(AU)-[ENV]AN106 |
|--------------------------------------------|------------------------------------------------|-------|-----|-------------------------|
| Sample Number                              | Parameter                                      | Units | LOR | Result                  |
| LB205068.001                               | Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1   | 0                       |

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

| Exchangeable Cations and Cation Exchange Capacity ( | CEC/ESP/SAR)               |       | Meth | Method: ME-(AU)-[ENV]AN122 |  |  |
|-----------------------------------------------------|----------------------------|-------|------|----------------------------|--|--|
| Sample Number                                       | Parameter                  | Units | LOR  | Result                     |  |  |
| LB205095.001                                        | Exchangeable Sodium, Na    | mg/kg | 2    | 0                          |  |  |
|                                                     | Exchangeable Potassium, K  | mg/kg | 2    | 0                          |  |  |
|                                                     | Exchangeable Calcium, Ca   | mg/kg | 2    | 0                          |  |  |
|                                                     | Exchangeable Magnesium, Mg | mg/kg | 2    | 0                          |  |  |
| Soluble Anions (1:5) in Soil by Ion Chromatography  |                            |       | Meth | od: ME-(AU)-[ENV]AN245     |  |  |
| Sample Number                                       | Parameter                  | Units | LOR  | Result                     |  |  |
| LB205060.001                                        | Chloride                   | mg/kg | 0.25 | <0.25                      |  |  |
|                                                     | Sulfate                    | mg/kg | 5    | <5.0                       |  |  |

| Total Recoverable Elements in Soil/Was | in Soil/Waste Solids/Materials by ICPOES Method: ME-(AU)-[ENV]AN040/AN |       |     |        |
|----------------------------------------|------------------------------------------------------------------------|-------|-----|--------|
| Sample Number                          | Parameter                                                              | Units | LOR | Result |
| LB205033.001                           | Calcium, Ca                                                            | mg/kg | 5   | <5     |
|                                        | Potassium, K                                                           | mg/kg | 10  | <10    |
|                                        | Magnesium, Mg                                                          | mg/kg | 5   | <5     |
|                                        | Manganese, Mn                                                          | mg/kg | 1   | <1     |
|                                        | Sodium, Na                                                             | mg/kg | 5   | <5     |



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.

| Alkalinity in Soil |              |                                    |       |     |          | Method: ME- | (AU)-[ENV]AN | 1002/AN135 |
|--------------------|--------------|------------------------------------|-------|-----|----------|-------------|--------------|------------|
| Original           | Duplicate    | Parameter                          | Units | LOR | Original | Duplicate   | Criteria %   | RPD %      |
| SE208846A.017      | LB204996.008 | Total Alkalinity as CaCO3 in Soil* | mg/kg | 25  | 44       | 40          | 75           | 10         |

### ductivity and TDS by Calculation - Soil

| Conductivity and TDS by Calculation - Soil Method: ME-(AU)-[ENV]/ |              |                                                |       |     |          |               |           |       |
|-------------------------------------------------------------------|--------------|------------------------------------------------|-------|-----|----------|---------------|-----------|-------|
| Original                                                          | Duplicate    | Parameter                                      | Units | LOR | Original | Duplicate Cr  | riteria % | RPD % |
| SE208978.002                                                      | LB205068.011 | Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1   | 24       | 23.6936959208 | 38        | 2     |

#### Moisture Content

| Moisture Content Method: ME-(AU)- |              |            |          |            |           |            | ENVJAN002 |
|-----------------------------------|--------------|------------|----------|------------|-----------|------------|-----------|
| Original                          | Duplicate    | Parameter  | Units LO | R Original | Duplicate | Criteria % | RPD %     |
| SE208978.002                      | LB205093.011 | % Moisture | %w/w 1   | 12.6       | 12.9      | 38         | 2         |

### pH in soil (1:5)

| pH in soil (1:5) Method: ME-(AU) |              |           |          |     |          |           | od: ME-(AU)-[ | ENVJAN101 |
|----------------------------------|--------------|-----------|----------|-----|----------|-----------|---------------|-----------|
| Original                         | Duplicate    | Parameter | Units    | LOR | Original | Duplicate | Criteria %    | RPD %     |
| SE208978.002                     | LB205068.011 | рН        | pH Units | 0.1 | 6.6      | 6.6       | 32            | 0         |

| Soluble Anions (1:5) in Soil by Ion Chromatography Method: ME-(AU)-[E |              |           |       |      |          | ENVJAN245 |            |       |
|-----------------------------------------------------------------------|--------------|-----------|-------|------|----------|-----------|------------|-------|
| Original                                                              | Duplicate    | Parameter | Units | LOR  | Original | Duplicate | Criteria % | RPD % |
| SE208978.002                                                          | LB205060.015 | Chloride  | mg/kg | 0.25 | 5.0      | 5.0       | 35         | 1     |
|                                                                       |              | Sulfate   | mg/kg | 5    | 14       | 14        | 66         | 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.

| Alkalinity in Soil |                                    |       |     |        | Method:  | ME-(AU)-[EN | /JAN002/AN135 |
|--------------------|------------------------------------|-------|-----|--------|----------|-------------|---------------|
| Sample Number      | Parameter                          | Units | LOR | Result | Expected | Criteria %  | Recovery %    |
| LB204996.002       | Total Alkalinity as CaCO3 in Soil* | mg/kg | 25  | 300    | 297.5    | 80 - 120    | 99            |

#### Conductivity and TDS by Calculation - Soil

| Conductivity and TDS by Calculation - Soil |                                                |       |     |        | N        | lethod: ME-(A | U)-[ENV]AN106 |
|--------------------------------------------|------------------------------------------------|-------|-----|--------|----------|---------------|---------------|
| Sample Number                              | Parameter                                      | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB205068.002                               | Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1   | NA     | 303      | 85 - 115      | 103           |

| Exchangeable Cations and Ca | Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) Method: MI |          |      |        |          |               | U)-[ENV]AN122 |
|-----------------------------|----------------------------------------------------------------------------|----------|------|--------|----------|---------------|---------------|
| Sample Number               | Parameter                                                                  | Units    | LOR  | Result | Expected | Criteria %    | Recovery %    |
| LB205095.002                | Exchangeable Sodium, Na                                                    | meq/100g | 0.01 | 0.20   | 0.194    | 80 - 120      | 102           |
|                             | Exchangeable Potassium, K                                                  | meq/100g | 0.01 | 0.62   | 0.63     | 80 - 120      | 98            |
|                             | Exchangeable Calcium, Ca                                                   | meq/100g | 0.01 | 6.6    | 6.3      | 80 - 120      | 105           |
|                             | Exchangeable Magnesium, Mg                                                 | meq/100g | 0.02 | 1.1    | 1.11     | 80 - 120      | 101           |
| pH in soil (1:5)            |                                                                            |          |      |        | N        | lethod: ME-(A | U)-[ENV]AN101 |
| Sample Number               | Parameter                                                                  | Units    | LOR  | Result | Expected | Criteria %    | Recovery %    |
| LB205068.003                | pH                                                                         | pH Units | 0.1  | 7.4    | 7.415    | 98 - 102      | 99            |

#### Soluble Anions (1:5) in Soil by Ion Chromatography

| Soluble Anions (1:5) in Soli by Ion Chromatography |           |  | Method: ME-(AU)- |      |        |          |            |            |  |
|----------------------------------------------------|-----------|--|------------------|------|--------|----------|------------|------------|--|
| Sample Number                                      | Parameter |  | Units            | LOR  | Result | Expected | Criteria % | Recovery % |  |
| LB205060.002                                       | Chloride  |  | mg/kg            | 0.25 | 95     | 100      | 70 - 130   | 95         |  |
|                                                    | Sulfate   |  | mg/kg            | 5    | 94     | 100      | 70 - 130   | 94         |  |

| Total Recoverable Elements i | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES |       |    | Method: ME-(AU)-[ENV]AN040/AN3 |       |          |            |  |  |
|------------------------------|---------------------------------------------------------------------|-------|----|--------------------------------|-------|----------|------------|--|--|
| Sample Number                | Sample Number Parameter Units LOR                                   |       |    |                                |       |          | Recovery % |  |  |
| LB205033.002                 | Calcium, Ca                                                         | mg/kg | 5  | 11000                          | 10367 | 80 - 120 | 109        |  |  |
|                              | Potassium, K                                                        | mg/kg | 10 | 1500                           | 1348  | 80 - 120 | 111        |  |  |
|                              | Magnesium, Mg                                                       | mg/kg | 5  | 11000                          | 10422 | 80 - 120 | 104        |  |  |
|                              | Manganese, Mn                                                       | mg/kg | 1  | 730                            | 660   | 80 - 120 | 111        |  |  |
|                              | Sodium, Na                                                          | mg/kg | 5  | 880                            | 756   | 80 - 120 | 116        |  |  |



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 Recoverabl | otal Recoverable Elements in Soll/Waste Solids/Materials by ICPOES |               |       |     |        |          | Method: ME-(AU)-[ENV]AN040/ |           |  |  |  |  |
|------------------|--------------------------------------------------------------------|---------------|-------|-----|--------|----------|-----------------------------|-----------|--|--|--|--|
| QC Sample        | Sample Number                                                      | Parameter     | Units | LOR | Result | Original | Spike                       | Recovery% |  |  |  |  |
| SE208846A.00     | LB205033.004                                                       | Calcium, Ca   | mg/kg | 5   | 3000   | 3400     | 50                          | -881 ④    |  |  |  |  |
| 7                |                                                                    | Potassium, K  | mg/kg | 10  | 820    | 240      | 500                         | 115       |  |  |  |  |
|                  |                                                                    | Magnesium, Mg | mg/kg | 5   | 620    | 650      | 50                          | -68 ④     |  |  |  |  |
|                  |                                                                    | Manganese, Mn | mg/kg | 1   | 98     | 47       | 50                          | 101       |  |  |  |  |
|                  |                                                                    | Sodium, Na    | mg/kg | 5   | 250    | 130      | 50                          | 225 ④     |  |  |  |  |



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 end of this report for failure reasons.

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.
- 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.
- 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.
- O LOR was raised due to dilution of significantly high concentration of analyte in sample.
- Image: Image:
- Recovery failed acceptance criteria due to sample heterogeneity.
- <sup>®</sup> LOR was raised due to high conductivity of the sample (required dilution).
- t Refer to relevant report comments for further information.

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## STATEMENT OF QA/QC PERFORMANCE

| CLIENT DETAILS |                                                    | LABORATORY DETAI | ILS                                          |
|----------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager          | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 Mandala Parade, Castle Hill           | SGS Reference    | SE209379 R0                                  |
| Order Number   | E24724.E02                                         | Date Received    | 30 Jul 2020                                  |
| Samples        | 7                                                  | Date Reported    | 06 Aug 2020                                  |

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).

Samples clearly labelled Yes Complete documentation received Yes SGS Ice Bricks Sample container provider Sample cooling method Samples received in correct containers Sample counts by matrix 7 Water Yes 30/7/2020 Type of documentation received COC Date documentation received Samples received in good order Yes Samples received without headspace Yes Sample temperature upon receipt 5.4°C Sufficient sample for analysis Yes Turnaround time requested Standard

SGS Australia Pty Ltd ABN 44 000 964 278

SAMPLE SUMMARY

Environment, Health and Safety

Unit 16 33 Maddox St Alexandria NSW 2015 PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Australia t +61 2 Australia f +61 2

t +61 2 8594 0400 www.sgs.com.au f +61 2 8594 0499



## HOLDING TIME SUMMARY

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

| Conductivity and TDS by (         | Calculation - Water       |          |             |             |                |             | Method:              | ME-(AU)-[ENV]AN10 |
|-----------------------------------|---------------------------|----------|-------------|-------------|----------------|-------------|----------------------|-------------------|
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205652 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 30 Jul 2020 | 26 Aug 2020          | 30 Jul 2020       |
| BH4M-a                            | SE209379.002              | LB205652 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 30 Jul 2020 | 26 Aug 2020          | 30 Jul 2020       |
| BH5M                              | SE209379.003              | LB205652 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 30 Jul 2020 | 26 Aug 2020          | 30 Jul 2020       |
| fercury (dissolved) in Wa         |                           |          |             |             |                |             | Method: ME-(AU)-[ENV |                   |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205681 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 31 Jul 2020 | 26 Aug 2020          | 04 Aug 2020       |
| BH4M-a                            | SE209379.002              | LB205681 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 31 Jul 2020 | 26 Aug 2020          | 04 Aug 2020       |
| BH5M                              | SE209379.003              | LB205681 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 31 Jul 2020 | 26 Aug 2020          | 04 Aug 2020       |
| GWQD 1                            | SE209379.004              | LB205681 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 31 Jul 2020 | 26 Aug 2020          | 04 Aug 2020       |
| GWQR 1                            | SE209379.005              | LB205681 | 29 Jul 2020 | 30 Jul 2020 | 26 Aug 2020    | 31 Jul 2020 | 26 Aug 2020          | 04 Aug 2020       |
| AH (Polynuclear Aromati           | ic Hydrocarbons) in Water |          |             |             |                |             | Method: I            | ME-(AU)-[ENV]AN4  |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 06 Aug 2020       |
| BH4M-a                            | SE209379.002              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 06 Aug 2020       |
| BH5M                              | SE209379.003              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 06 Aug 2020       |
| GWQD 1                            | SE209379.004              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 06 Aug 2020       |
| GWQR 1                            | SE209379.005              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 06 Aug 2020       |
| H in water                        | 02200010.000              | LDL0000  | 20 001 2020 | 00 001 2020 | 007.03 2020    | 010012020   | •                    | ME-(AU)-[ENV]AN1  |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205652 | 29 Jul 2020 | 30 Jul 2020 | 30 Jul 2020    | 30 Jul 2020 | 30 Jul 2020          | 30 Jul 2020       |
| BH3M-a<br>BH4M-a                  | SE209379.001              | LB205652 | 29 Jul 2020 | 30 Jul 2020 | 30 Jul 2020    | 30 Jul 2020 | 30 Jul 2020          | 30 Jul 2020       |
| BH5M                              | SE209379.002              | LB205652 | 29 Jul 2020 | 30 Jul 2020 | 30 Jul 2020    | 30 Jul 2020 | 30 Jul 2020          | 30 Jul 2020       |
| race Metals (Dissolved) i         |                           | LB203032 | 29 301 2020 | 30 301 2020 | 30 301 2020    | 30 301 2020 |                      | ME-(AU)-[ENV]AN3  |
|                                   | -                         | 00 B (   |             |             |                |             |                      |                   |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205820 | 29 Jul 2020 | 30 Jul 2020 | 25 Jan 2021    | 03 Aug 2020 | 25 Jan 2021          | 04 Aug 2020       |
| BH4M-a                            | SE209379.002              | LB205820 | 29 Jul 2020 | 30 Jul 2020 | 25 Jan 2021    | 03 Aug 2020 | 25 Jan 2021          | 04 Aug 2020       |
| BH5M                              | SE209379.003              | LB205820 | 29 Jul 2020 | 30 Jul 2020 | 25 Jan 2021    | 03 Aug 2020 | 25 Jan 2021          | 04 Aug 2020       |
| GWQD 1                            | SE209379.004              | LB205820 | 29 Jul 2020 | 30 Jul 2020 | 25 Jan 2021    | 03 Aug 2020 | 25 Jan 2021          | 04 Aug 2020       |
| GWQR 1<br>RH (Total Recoverable F | SE209379.005              | LB205820 | 29 Jul 2020 | 30 Jul 2020 | 25 Jan 2021    | 03 Aug 2020 | 25 Jan 2021          | 04 Aug 2020       |
| •                                 | <u> </u>                  |          |             |             |                |             |                      |                   |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 05 Aug 2020       |
| BH4M-a                            | SE209379.002              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 05 Aug 2020       |
| BH5M                              | SE209379.003              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 05 Aug 2020       |
| GWQD 1                            | SE209379.004              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 05 Aug 2020       |
| GWQR 1                            | SE209379.005              | LB205665 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 31 Jul 2020 | 09 Sep 2020          | 05 Aug 2020       |
| OCs in Water                      |                           |          |             |             |                |             |                      | ME-(AU)-[ENV]AN4  |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| BH4M-a                            | SE209379.002              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| BH5M                              | SE209379.003              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWQD 1                            | SE209379.004              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWQR 1                            | SE209379.005              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWTB 1                            | SE209379.006              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWTS 1                            | SE209379.007              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| olatile Petroleum Hydroc          |                           | 00 8-6   | Consulad    | De estimat  |                | Enducadad   |                      | ME-(AU)-[ENV]AN4  |
| Sample Name                       | Sample No.                | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due         | Analysed          |
| BH3M-a                            | SE209379.001              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| BH4M-a                            | SE209379.002              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| BH5M                              | SE209379.003              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWQD 1                            | SE209379.004              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWQR 1                            | SE209379.005              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 05 Aug 2020       |
| GWTB 1                            | SE209379.006              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 06 Aug 2020       |
| GWTS 1                            | SE209379.007              | LB205796 | 29 Jul 2020 | 30 Jul 2020 | 05 Aug 2020    | 03 Aug 2020 | 12 Sep 2020          | 06 Aug 2020       |



## **SURROGATES**

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

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

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

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

| Parameter                    | Sample Name | Sample Number | Units | Criteria  | Recovery % |
|------------------------------|-------------|---------------|-------|-----------|------------|
| 2-fluorobiphenyl (Surrogate) | BH3M-a      | SE209379.001  | %     | 40 - 130% | 76         |
|                              | BH4M-a      | SE209379.002  | %     | 40 - 130% | 76         |
|                              | BH5M        | SE209379.003  | %     | 40 - 130% | 64         |
| d14-p-terphenyl (Surrogate)  | BH3M-a      | SE209379.001  | %     | 40 - 130% | 106        |
|                              | BH4M-a      | SE209379.002  | %     | 40 - 130% | 108        |
|                              | BH5M        | SE209379.003  | %     | 40 - 130% | 98         |
| d5-nitrobenzene (Surrogate)  | BH3M-a      | SE209379.001  | %     | 40 - 130% | 58         |
|                              | BH4M-a      | SE209379.002  | %     | 40 - 130% | 64         |
|                              | BH5M        | SE209379.003  | %     | 40 - 130% | 54         |

| VOCs in Water                     |             |               |       | Method: M | E-(AU)-[ENV]AN4 |
|-----------------------------------|-------------|---------------|-------|-----------|-----------------|
| Parameter                         | Sample Name | Sample Number | Units | Criteria  | Recovery %      |
| Bromofluorobenzene (Surrogate)    | BH3M-a      | SE209379.001  | %     | 40 - 130% | 101             |
|                                   | BH4M-a      | SE209379.002  | %     | 40 - 130% | 102             |
|                                   | BH5M        | SE209379.003  | %     | 40 - 130% | 102             |
|                                   | GWQD 1      | SE209379.004  | %     | 40 - 130% | 101             |
|                                   | GWQR 1      | SE209379.005  | %     | 40 - 130% | 100             |
|                                   | GWTB 1      | SE209379.006  | %     | 40 - 130% | 99              |
|                                   | GWTS 1      | SE209379.007  | %     | 40 - 130% | 97              |
| d4-1,2-dichloroethane (Surrogate) | BH3M-a      | SE209379.001  | %     | 40 - 130% | 101             |
|                                   | BH4M-a      | SE209379.002  | %     | 40 - 130% | 101             |
|                                   | BH5M        | SE209379.003  | %     | 40 - 130% | 102             |
|                                   | GWQD 1      | SE209379.004  | %     | 40 - 130% | 102             |
|                                   | GWQR 1      | SE209379.005  | %     | 40 - 130% | 104             |
|                                   | GWTB 1      | SE209379.006  | %     | 40 - 130% | 101             |
|                                   | GWTS 1      | SE209379.007  | %     | 40 - 130% | 101             |
| d8-toluene (Surrogate)            | BH3M-a      | SE209379.001  | %     | 40 - 130% | 98              |
|                                   | BH4M-a      | SE209379.002  | %     | 40 - 130% | 100             |
|                                   | BH5M        | SE209379.003  | %     | 40 - 130% | 99              |
|                                   | GWQD 1      | SE209379.004  | %     | 40 - 130% | 99              |
|                                   | GWQR 1      | SE209379.005  | %     | 40 - 130% | 103             |
|                                   | GWTB 1      | SE209379.006  | %     | 40 - 130% | 98              |
|                                   | GWTS 1      | SE209379.007  | %     | 40 - 130% | 98              |

### Volatile Petroleum Hydrocarbons in Water

| Sample Name | Sample Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Recovery %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BH3M-a      | SE209379.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH4M-a      | SE209379.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH5M        | SE209379.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GWQD 1      | SE209379.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GWQR 1      | SE209379.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH3M-a      | SE209379.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH4M-a      | SE209379.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH5M        | SE209379.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GWQD 1      | SE209379.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GWQR 1      | SE209379.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH3M-a      | SE209379.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| BH4M-a      | SE209379.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BH5M        | SE209379.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| GWQD 1      | SE209379.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| GWQR 1      | SE209379.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40 - 130%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|             | BH3M-a           BH4M-a           BH5M           GWQD 1           GWQR 1           BH3M-a           BH4M-a           BH5M           GWQD 1           GWQD 1           GWQR 1           BH3M-a           BH5M           GWQR 1           BH3M-a           BH5M           GWQR 1           BH3M-a           BH4M-a           BH5M           GWQD 1 | BH3M-a         SE209379.001           BH4M-a         SE209379.002           BH5M         SE209379.003           GWQD 1         SE209379.003           GWQR 1         SE209379.005           BH3M-a         SE209379.005           BH3M-a         SE209379.001           BH4M-a         SE209379.002           BH5M         SE209379.003           GWQD 1         SE209379.003           GWQD 1         SE209379.005           BH5M         SE209379.005           BH3M-a         SE209379.001           BH4M-a         SE209379.002           BH5M         SE209379.003           GWQD 1         SE209379.003           GWQD 1         SE209379.003 | BH3M-a         SE209379.001         %           BH4M-a         SE209379.002         %           BH5M         SE209379.003         %           GWQD 1         SE209379.003         %           GWQR 1         SE209379.005         %           BH3M-a         SE209379.005         %           BH3M-a         SE209379.005         %           BH4M-a         SE209379.001         %           BH4M-a         SE209379.002         %           BH5M         SE209379.003         %           GWQD 1         SE209379.003         %           GWQR 1         SE209379.005         %           BH3M-a         SE209379.005         %           BH3M-a         SE209379.005         %           BH3M-a         SE209379.005         %           BH3M-a         SE209379.002         %           BH3M-a         SE209379.002         %           BH4M-a         SE209379.002         %           BH4M-a         SE209379.003         %           GWQD 1         SE209379.003         %           GWQD 1         SE209379.004         % | BH3M-a         SE209379.001         %         40 - 130%           BH4M-a         SE209379.002         %         40 - 130%           BH5M         SE209379.003         %         40 - 130%           GWQD 1         SE209379.003         %         40 - 130%           GWQR 1         SE209379.004         %         40 - 130%           BH3M-a         SE209379.005         %         40 - 130%           BH3M-a         SE209379.005         %         60 - 130%           BH4M-a         SE209379.002         %         60 - 130%           BH5M         SE209379.003         %         60 - 130%           GWQD 1         SE209379.003         %         60 - 130%           GWQD 1         SE209379.005         %         60 - 130%           BH5M         SE209379.005         %         60 - 130%           GWQR 1         SE209379.001         %         40 - 130%           BH3M-a         SE209379.002         %         40 - 130%           BH4M-a         SE209379.002         %         40 - 130%           BH3M-a         SE209379.003         %         40 - 130%           BH4M-a         SE209379.003         %         40 - 130%           BH5M </td |



## SE209379 R0

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.

| Conductivity and TDS by Calculation - Water Method: ME- |                     |       | od: ME-(AU)-[ENV]AN106 |        |
|---------------------------------------------------------|---------------------|-------|------------------------|--------|
| Sample Number                                           | Parameter           | Units | LOR                    | Result |
| LB205652.001                                            | Conductivity @ 25 C | μS/cm | 2                      | <2     |

### Mercury (dissolved) in Water

| Mercury (dissolved) in Water |           |       | Method: ME-(/ | AU)-[ENV]AN311(Perth)/AN312 |
|------------------------------|-----------|-------|---------------|-----------------------------|
| Sample Number                | Parameter | Units | LOR           | Result                      |
| LB205681.001                 | Mercury   | mg/L  | 0.0001        | <0.0001                     |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

| Polynuclear Aromatic Hydrocarbo | s) in water                  |       | Meuri | od: ME-(AU)-[ENV |
|---------------------------------|------------------------------|-------|-------|------------------|
| nple Number                     | Parameter                    | Units | LOR   | Result           |
| 205665.001                      | 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)  | %     | -     | 66               |
|                                 | 2-fluorobiphenyl (Surrogate) | %     | -     | 74               |
|                                 | d14-p-terphenyl (Surrogate)  | %     | -     | 98               |

| I race Metals (Dissolved) in Water by IC | ;PMS         |       | Metho | Dd: ME-(AU)-[ENV]AN318 |
|------------------------------------------|--------------|-------|-------|------------------------|
| Sample Number                            | Parameter    | Units | LOR   | Result                 |
| LB205820.001                             | Arsenic, As  | μg/L  | 1     | <1                     |
|                                          | Cadmium, Cd  | μg/L  | 0.1   | <0.1                   |
|                                          | Chromium, Cr | μg/L  | 1     | <1                     |
|                                          | Copper, Cu   | μg/L  | 1     | <1                     |
|                                          | Lead, Pb     | μg/L  | 1     | <1                     |
|                                          | Nickel, Ni   | μg/L  | 1     | <1                     |
|                                          | Zinc, Zn     | µg/L  | 5     | <5                     |

### TRH (Total Recoverable Hydrocarbons) in Water

| Sample Number | Parameter   | Units | LOR | Result |
|---------------|-------------|-------|-----|--------|
| LB205665.001  | TRH C10-C14 | μg/L  | 50  | <50    |
|               | TRH C15-C28 | μg/L  | 200 | <200   |
|               | TRH C29-C36 | μg/L  | 200 | <200   |
|               | TBH C37-C40 | μα/Ι  | 200 | <200   |

| VOCs in Water |                        |                                  |       | Metho | od: ME-(AU)-[ENV]AN433 |
|---------------|------------------------|----------------------------------|-------|-------|------------------------|
| Sample Number |                        | Parameter                        | Units | LOR   | Result                 |
| LB205796.001  | Fumigants              | 2,2-dichloropropane              | μg/L  | 0.5   | <0.5                   |
|               |                        | 1,2-dichloropropane              | µg/L  | 0.5   | <0.5                   |
|               |                        | cis-1,3-dichloropropene          | μg/L  | 0.5   | <0.5                   |
|               |                        | trans-1,3-dichloropropene        | μg/L  | 0.5   | <0.5                   |
|               |                        | 1,2-dibromoethane (EDB)          | μg/L  | 0.5   | <0.5                   |
|               | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | μg/L  | 5     | <5                     |
|               |                        | Chloromethane                    | μg/L  | 5     | <5                     |
|               |                        | Vinyl chloride (Chloroethene)    | μg/L  | 0.3   | <0.3                   |
|               |                        | Bromomethane                     | μg/L  | 10    | <10                    |
|               |                        | Chloroethane                     | μg/L  | 5     | <5                     |
|               |                        | Trichlorofluoromethane           | μg/L  | 1     | <1                     |
|               |                        | lodomethane                      | µg/L  | 5     | <5                     |

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



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

| mple Number | nued)                                   | Parameter                                                | Units | LOR | d: ME-(AU)-[ENV].<br>Result |
|-------------|-----------------------------------------|----------------------------------------------------------|-------|-----|-----------------------------|
|             | Listenes etc. d Alleh etc.              |                                                          |       |     |                             |
| 205796.001  | Halogenated Aliphatics                  | 1,1-dichloroethene                                       | μg/L  | 0.5 | <0.5                        |
|             |                                         | Dichloromethane (Methylene chloride)                     | μg/L  | 5   | <5                          |
|             |                                         | Allyl chloride                                           | μg/L  | 2   | <2                          |
|             |                                         | trans-1,2-dichloroethene                                 | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,1-dichloroethane                                       | μg/L  | 0.5 | <0.5                        |
|             |                                         | cis-1,2-dichloroethene                                   | μg/L  | 0.5 | <0.5                        |
|             |                                         | Bromochloromethane                                       | µg/L  | 0.5 | <0.5                        |
|             |                                         | 1,2-dichloroethane                                       | µg/L  | 0.5 | <0.5                        |
|             |                                         | 1,1,1-trichloroethane                                    | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,1-dichloropropene                                      | µg/L  | 0.5 | <0.5                        |
|             |                                         |                                                          |       |     |                             |
|             |                                         | Carbon tetrachloride                                     | μg/L  | 0.5 | <0.5                        |
|             |                                         | Dibromomethane                                           | μg/L  | 0.5 | <0.5                        |
|             |                                         | Trichloroethene (Trichloroethylene,TCE)                  | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,1,2-trichloroethane                                    | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,3-dichloropropane                                      | μg/L  | 0.5 | <0.5                        |
|             |                                         | Tetrachloroethene (Perchloroethylene,PCE)                | µg/L  | 0.5 | <0.5                        |
|             |                                         | 1,1,1,2-tetrachloroethane                                | μg/L  | 0.5 | <0.5                        |
|             |                                         | cis-1,4-dichloro-2-butene                                | µg/L  | 1   | <1                          |
|             |                                         |                                                          |       | 0.5 | <0.5                        |
|             |                                         | 1,1,2,2-tetrachloroethane                                | μg/L  |     |                             |
|             |                                         | 1,2,3-trichloropropane                                   | μg/L  | 0.5 | <0.5                        |
|             |                                         | trans-1,4-dichloro-2-butene                              | μg/L  | 1   | <1                          |
|             |                                         | 1,2-dibromo-3-chloropropane                              | μg/L  | 0.5 | <0.5                        |
|             |                                         | Hexachlorobutadiene                                      | µg/L  | 0.5 | <0.5                        |
|             | Halogenated Aromatics                   | Chlorobenzene                                            | µg/L  | 0.5 | <0.5                        |
|             |                                         | Bromobenzene                                             | μg/L  | 0.5 | <0.5                        |
|             |                                         | 2-chlorotoluene                                          |       | 0.5 | <0.5                        |
|             |                                         |                                                          | μg/L  |     |                             |
|             |                                         | 4-chlorotoluene                                          | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,3-dichlorobenzene                                      | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,4-dichlorobenzene                                      | μg/L  | 0.3 | <0.3                        |
|             |                                         | 1,2-dichlorobenzene                                      | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,2,4-trichlorobenzene                                   | µg/L  | 0.5 | <0.5                        |
|             |                                         | 1,2,3-trichlorobenzene                                   | μg/L  | 0.5 | <0.5                        |
|             | Monocyclic Aromatic                     | Benzene                                                  | μg/L  | 0.5 | <0.5                        |
|             | Hydrocarbons                            | Toluene                                                  | μg/L  | 0.5 | <0.5                        |
|             | Hydrocarbons                            |                                                          |       |     |                             |
|             |                                         | Ethylbenzene                                             | μg/L  | 0.5 | <0.5                        |
|             |                                         | m/p-xylene                                               | μg/L  | 1   | <1                          |
|             |                                         | o-xylene                                                 | μg/L  | 0.5 | <0.5                        |
|             |                                         | Styrene (Vinyl benzene)                                  | μg/L  | 0.5 | <0.5                        |
|             |                                         | Isopropylbenzene (Cumene)                                | µg/L  | 0.5 | <0.5                        |
|             |                                         | n-propylbenzene                                          | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,3,5-trimethylbenzene                                   | μg/L  | 0.5 | <0.5                        |
|             |                                         | · · · · · · · · · · · · · · · · · · ·                    |       |     |                             |
|             |                                         | tert-butylbenzene                                        | μg/L  | 0.5 | <0.5                        |
|             |                                         | 1,2,4-trimethylbenzene                                   | μg/L  | 0.5 | <0.5                        |
|             |                                         | sec-butylbenzene                                         | μg/L  | 0.5 | <0.5                        |
|             |                                         | p-isopropyltoluene                                       | μg/L  | 0.5 | <0.5                        |
|             |                                         | n-butylbenzene                                           | μg/L  | 0.5 | <0.5                        |
|             | Nitrogenous Compounds                   | Acrylonitrile                                            | μg/L  | 0.5 | <0.5                        |
|             | Oxygenated Compounds                    | Acetone (2-propanone)                                    | μg/L  | 10  | <10                         |
|             | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | MtBE (Methyl-tert-butyl ether)                           | μg/L  | 2   | <2                          |
|             |                                         |                                                          |       | 10  | <10                         |
|             |                                         | Vinyl acetate                                            | μg/L  |     |                             |
|             |                                         | MEK (2-butanone)                                         | μg/L  | 10  | <10                         |
|             |                                         | MIBK (4-methyl-2-pentanone)                              | μg/L  | 5   | <5                          |
|             |                                         | 2-hexanone (MBK)                                         | μg/L  | 5   | <5                          |
|             | Polycyclic VOCs                         | Naphthalene                                              | μg/L  | 0.5 | <0.5                        |
|             |                                         | Carbon disulfide                                         | µg/L  | 2   | <2                          |
|             | Sulphonated                             |                                                          |       | _   | 96                          |
|             |                                         | d4-1.2-dichloroethane (Surrogate)                        | %     | -   | 90                          |
|             | Surphonated                             | d4-1,2-dichloroethane (Surrogate)                        | %     |     |                             |
|             |                                         | d8-toluene (Surrogate)                                   | %     | -   | 95                          |
|             | Surrogates                              | d8-toluene (Surrogate)<br>Bromofluorobenzene (Surrogate) | %     | -   | 95<br>97                    |
|             |                                         | d8-toluene (Surrogate)                                   | %     | -   | 95                          |



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

| VOCs in Water (contin | nued)               |                                   |       | Meth | od: ME-(AU)-[ENV]AN433 |
|-----------------------|---------------------|-----------------------------------|-------|------|------------------------|
| Sample Number         |                     | Parameter                         | Units | LOR  | Result                 |
| LB205796.001          | Trihalomethanes     | Bromoform (THM)                   | μg/L  | 0.5  | <0.5                   |
| Volatile Petroleum Hy | drocarbons in Water |                                   |       | Meth | od: ME-(AU)-[ENV]AN433 |
| Sample Number         |                     | Parameter                         | Units | LOR  | Result                 |
| LB205796.001          |                     | TRH C6-C9                         | μg/L  | 40   | <40                    |
|                       | Surrogates          | d4-1,2-dichloroethane (Surrogate) | %     | -    | 96                     |
|                       |                     | d8-toluene (Surrogate)            | %     | -    | 95                     |
|                       |                     | Bromofluorobenzene (Surrogate)    | %     | -    | 97                     |



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

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.

| Conductivity and TDS by Calculation - Water Method: ME-(AU)-[EN |              |                     |       |     | ENVJAN106 |           |            |       |
|-----------------------------------------------------------------|--------------|---------------------|-------|-----|-----------|-----------|------------|-------|
| Original                                                        | Duplicate    | Parameter           | Units | LOR | Original  | Duplicate | Criteria % | RPD % |
| SE209379.003                                                    | LB205652.007 | Conductivity @ 25 C | µS/cm | 2   | 4100      | 4200      | 15         | 3     |

### Mercury (dissolved) in Water

| Mercury (dissolved) | in Water     |           |       |        | Metho    | d: ME-(AU)-[ | envjan311(p | erth)/AN312 |
|---------------------|--------------|-----------|-------|--------|----------|--------------|-------------|-------------|
| Original            | Duplicate    | Parameter | Units | LOR    | Original | Duplicate    | Criteria %  | RPD %       |
| SE209400.008        | LB205681.011 | Mercury   | µg/L  | 0.0001 | <0.0001  | <0.0001      | 200         | 0           |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

| Driginal    | Duplicate    |            | Parameter                    | Units | LOR | Original | Duplicate | Criteria %    | RPD % |
|-------------|--------------|------------|------------------------------|-------|-----|----------|-----------|---------------|-------|
| E209384.010 | LB205665.025 |            | 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      | 200           | 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  | -   | 0.3      | 0.3       | 30            | 3     |
|             |              |            | 2-fluorobiphenyl (Surrogate) | µg/L  | -   | 0.4      | 0.4       | 30            | 5     |
|             |              |            | d14-p-terphenyl (Surrogate)  | µg/L  | -   | 0.5      | 0.5       | 30            | 4     |
| n water     |              |            |                              |       |     |          | Meth      | od: ME-(AU)-[ |       |
| iginal      | Duplicate    |            | Parameter                    | Units | LOR | Original | Duplicate | Criteria %    | RPD   |

| Original     | Duplicate    | Parameter | Units    | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------|----------|-----|----------|-----------|------------|-------|
| SE209379.003 | LB205652.007 | pH**      | pH Units | -   | 4.6      | 4.5       | 17         | 1     |

### Trace Metals (Dissolved) in Water by ICPMS

| Trace Metals (Dise | solved) in Water by ICPMS     |              |      |       |          | Meth      | od: ME-(AU)- | ENVJAN318 |
|--------------------|-------------------------------|--------------|------|-------|----------|-----------|--------------|-----------|
| Original           | Duplicate                     | Parameter    | Unit | s LOR | Original | Duplicate | Criteria %   | RPD %     |
| SE209379.001       | LB205820.014                  | Arsenic, As  | μg/l | 1     | <1       | 1         | 117          | 7         |
|                    |                               | Cadmium, Cd  | μg/l | 0.1   | <0.1     | <0.1      | 118          | 0         |
|                    |                               | Chromium, Cr | μg/l | 1     | 1        | 1         | 104          | 2         |
|                    |                               | Copper, Cu   | µg/l | 1     | 22       | 21        | 20           | 0         |
|                    |                               | Lead, Pb     | µg/l | 1     | <1       | <1        | 136          | 0         |
|                    |                               | Nickel, Ni   | μg/l | 1     | 26       | 26        | 19           | 0         |
|                    |                               | Zinc, Zn     | µg/l | 5     | 74       | 72        | 22           | 2         |
| SE209418.001       | LB205820.028                  | Arsenic, As  | µg/l | 1     | 2        | 2         | 57           | 8         |
|                    |                               | Cadmium, Cd  | µg/l | 0.1   | <0.1     | <0.1      | 200          | 0         |
|                    |                               | Chromium, Cr | µg/l | 1     | <1       | <1        | 200          | 0         |
|                    |                               | Copper, Cu   | μg/l | 1     | 5        | 5         | 36           | 5         |
|                    |                               | Lead, Pb     | μg/l | 1     | <1       | <1        | 200          | 0         |
|                    |                               | Nickel, Ni   | μg/l | 1     | 11       | 12        | 24           | 7         |
|                    |                               | Zinc, Zn     | μg/I | _ 5   | 23       | 25        | 36           | 10        |
| TRH (Total Recov   | erable Hydrocarbons) in Water |              |      |       |          | Meth      | od: ME-(AU)- | ENVJAN40  |
| Original           | Duplicate                     | Parameter    | Unit | s LOR | Original | Duplicate | Criteria %   | RPD %     |
| SE209384.010       | LB205665.025                  | TRH C10-C14  | μg/l | 50    | <50      | <50       | 200          | 0         |
|                    |                               | TRH C15-C28  | μg/l | 200   | <200     | <200      | 200          | 0         |
|                    |                               | TRH C29-C36  | µg/I | 200   | <200     | <200      | 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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

| Original     | Duplicate    |              | Parameter                                 | Units        | LOR | Original | Duplicate    | Criteria %  | RPD %    |
|--------------|--------------|--------------|-------------------------------------------|--------------|-----|----------|--------------|-------------|----------|
| SE209384.010 | LB205665.025 |              | TRH C37-C40                               | μg/L         | 200 | <200     | <200         | 200         | 0 KPD /  |
| 52209304.010 | LB203003.025 |              | TRH C10-C40                               | μg/L         | 320 | <650     | <650         | 200         | 0        |
|              |              | TRH F Bands  | TRH >C10-C16                              | μg/L         | 60  | <60      | <60          | 200         | 0        |
|              |              | TRH F Ballus | TRH >C16-C34 (F3)                         |              | 500 | <500     | <500         | 200         | 0        |
|              |              |              | TRH >C34-C40 (F4)                         | μg/L<br>μg/L | 500 | <500     | <500         | 200         | 0        |
|              |              |              | TRD 2034-040 (F4)                         | pg/L         | 500 | <500     |              |             |          |
| OCs in Water |              |              |                                           |              |     |          | Metho        | d: ME-(AU)- | [ENV]AN4 |
| Original     | Duplicate    |              | Parameter                                 | Units        | LOR | Original | Duplicate    | Criteria %  | RPD %    |
| SE209379.003 | LB205796.021 | Fumigants    | 2,2-dichloropropane                       | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | 1,2-dichloropropane                       | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | cis-1,3-dichloropropene                   | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | trans-1,3-dichloropropene                 | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | 1,2-dibromoethane (EDB)                   | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              | Halogenated  | Dichlorodifluoromethane (CFC-12)          | µg/L         | 5   | <5       | 0.0218575576 | 200         | 0        |
|              |              | Aliphatics   | Chloromethane                             | µg/L         | 5   | <5       | 0.0969633034 | 200         | 0        |
|              |              |              | Vinyl chloride (Chloroethene)             | µg/L         | 0.3 | <0.3     | 0.0341861876 | 200         | 0        |
|              |              |              | Bromomethane                              | µg/L         | 10  | <10      | 0.0712268014 | 200         | 0        |
|              |              |              | Chloroethane                              | µg/L         | 5   | <5       | 0.0581350986 | 200         | 0        |
|              |              |              | Trichlorofluoromethane                    | µg/L         | 1   | <1       | 0.0224520922 | 200         | 0        |
|              |              |              | lodomethane                               | μg/L         | 5   | <5       | 0.0912541609 | 200         | 0        |
|              |              |              | 1,1-dichloroethene                        | µg/L         | 0.5 | <0.5     | 0.0646659091 | 200         | 0        |
|              |              |              | Dichloromethane (Methylene chloride)      | µg/L         | 5   | <5       | 0.3123674567 | 200         | 0        |
|              |              |              | Allyl chloride                            | µg/L         | 2   | <2       | 0.0050668673 | 200         | 0        |
|              |              |              | trans-1,2-dichloroethene                  | µg/L         | 0.5 | <0.5     | 0.0082382690 | 200         | 0        |
|              |              |              | 1,1-dichloroethane                        | μg/L         | 0.5 | <0.5     | 0.0110715919 | 200         | 0        |
|              |              |              | cis-1,2-dichloroethene                    | μg/L         | 0.5 | <0.5     | 0.0043680382 | 200         | 0        |
|              |              |              | Bromochloromethane                        | μg/L         | 0.5 | <0.5     | 0.0114186058 | 200         | 0        |
|              |              |              | 1,2-dichloroethane                        | µg/L         | 0.5 | <0.5     | 0.0381769395 | 200         | 0        |
|              |              |              | 1,1,1-trichloroethane                     | μg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | 1,1-dichloropropene                       | μg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | Carbon tetrachloride                      | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | Dibromomethane                            | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | Trichloroethene (Trichloroethylene,TCE)   | µg/L         | 0.5 | <0.5     | 0.0410149357 | 200         | 0        |
|              |              |              | 1,1,2-trichloroethane                     | μg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | 1,3-dichloropropane                       | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | Tetrachloroethene (Perchloroethylene,PCE) | µg/L         | 0.5 | <0.5     | 0.0046824291 | 200         | 0        |
|              |              |              | 1,1,1,2-tetrachloroethane                 | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | cis-1,4-dichloro-2-butene                 | µg/L         | 1   | <1       | 0.0198120819 | 200         | 0        |
|              |              |              | 1,1,2,2-tetrachloroethane                 | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | 1,2,3-trichloropropane                    | µg/L         | 0.5 | <0.5     | 0.0044901235 | 200         | 0        |
|              |              |              | trans-1,4-dichloro-2-butene               | μg/L         | 1   | <1       | 0            | 200         | 0        |
|              |              |              | 1,2-dibromo-3-chloropropane               | μg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | Hexachlorobutadiene                       | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              | Halogenated  | Chlorobenzene                             | µg/L         | 0.5 | <0.5     | 0.0778610047 | 200         | 0        |
|              |              | Aromatics    | Bromobenzene                              | µg/L         | 0.5 | <0.5     | 0.0041340121 | 200         | 0        |
|              |              |              | 2-chlorotoluene                           | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | 4-chlorotoluene                           | µg/L         | 0.5 | <0.5     | 0.0035778758 | 200         | 0        |
|              |              |              | 1,3-dichlorobenzene                       | µg/L         | 0.5 | <0.5     | 0.0082028814 | 200         | 0        |
|              |              |              | 1,4-dichlorobenzene                       | µg/L         | 0.3 | <0.3     | 0.0075575162 | 200         | 0        |
|              |              |              | 1,2-dichlorobenzene                       | µg/L         | 0.5 | <0.5     | 0.0481516141 | 200         | 0        |
|              |              |              | 1,2,4-trichlorobenzene                    | µg/L         | 0.5 | <0.5     | 0.0022831751 | 200         | 0        |
|              |              |              | 1,2,3-trichlorobenzene                    | μg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              | Monocyclic   | Benzene                                   | μg/L         | 0.5 | <0.5     | 0.0709953161 | 200         | 0        |
|              |              | Aromatic     | Toluene                                   | µg/L         | 0.5 | <0.5     | 0.1342329676 | 200         | 0        |
|              |              |              | Ethylbenzene                              | µg/L         | 0.5 | <0.5     | 0.0867650901 | 200         | 0        |
|              |              |              | m/p-xylene                                | μg/L         | 1   | <1       | 0.2428947107 | 200         | 0        |
|              |              |              | o-xylene                                  | μg/L         | 0.5 | <0.5     | 0.1008486267 | 200         | 0        |
|              |              |              | Styrene (Vinyl benzene)                   | µg/L         | 0.5 | <0.5     | 0            | 200         | 0        |
|              |              |              | Isopropylbenzene (Cumene)                 | µg/L         | 0.5 | <0.5     | 0.0094876380 | 200         | 0        |
|              |              |              | n-propylbenzene                           | µg/L         | 0.5 | <0.5     | 0.0056860456 | 200         | 0        |
|              |              |              | 1,3,5-trimethylbenzene                    | μg/L         | 0.5 | <0.5     | 0.0191567003 | 200         | 0        |



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

TRH C6-C10 minus BTEX (F1)

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

### VOCs in Water (continued) Method: ME-(AU)-[ENV]AN433 Original Duplicate Original Duplicate Criteria % RPD % Parameter Units LOR SE209379.003 LB205796.021 0.5 200 tert-butylbenzene <0.5 0 0 Monocyclic μg/L Aromatic 1,2,4-trimethylbenzene µg/L 0.5 < 0.5 0.0270376485 200 0 sec-butylbenzene 0.5 <0.5 0 200 0 µg/L p-isopropyltoluene 0.5 <0.5 0.0051470435 200 0 µg/L n-butylbenzene µg/L 0.5 <0.5 0.0063218082 200 0 Nitrogenous Acrylonitrile µg/L 0.5 <0.5 0.0263664343 200 0 Oxvgenated <10 1.0732291652 200 0 Acetone (2-propanone) 10 ua/L Compounds MtBE (Methyl-tert-butyl ether) µg/L 2 <2 0.0173552770 200 0 10 <10 200 0 Vinyl acetate µg/L 0 MEK (2-butanone) 10 <10 0 200 0 µg/L MIBK (4-methyl-2-pentanone) µg/L 5 <5 0.0373521892 200 0 2-hexanone (MBK) 5 <5 0 200 0 µg/L Polycyclic Naphthalene 0.5 < 0.5 0.0531855954 200 0 µg/L Sulphonated Carbon disulfide µg/L 2 <2 0 200 0 9.7366507160 30 Surrogates d4-1,2-dichloroethane (Surrogate) 10.2 4 µg/L 10.0420551341 d8-toluene (Surrogate) 9.9 30 µg/L 1 Bromofluorobenzene (Surrogate) µg/L 10.2 9.7133245346 30 5 Trihalomethan Chloroform (THM) 0.5 1.7 1.7385182683 59 µg/L 4 Bromodichloromethane (THM) 0.2446066136 0.5 <0.5 200 0 es µg/L Dibromochloromethane (THM) µg/L 0.5 <0.5 0 0452746342 200 0 Bromoform (THM) 0.5 <0.5 200 0 µg/L 0 Method: ME-(AU)-[ENV]AN433 Volatile Petroleum Hydrocarbons in Water Original Duplicate Criteria % <u>RPD %</u> Original Duplicate Units LOR Parameter SE209379.003 LB205796.021 TRH C6-C10 50 <50 4,7611052356 200 0 µg/L 4.3329901351 TRH C6-C9 40 <40 200 0 µg/L d4-1,2-dichloroethane (Surrogate) 9.7366507160 Surrogates 10.2 30 µg/L 4 d8-toluene (Surrogate) µg/L 9.9 10.0420551341 30 1 Bromofluorobenzene (Surrogate) 10.2 9.7133245346 30 5 µg/L VPH F Bands 0.0709953161 Benzene (F0) µg/L 0.5 <0.5 200 0

µg/L

50

<50

4.7611052356

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.

| Conductivity and TDS by Calc | culation - Water    |       |     |        | N        | /lethod: ME-(A | U)-[ENV]AN106 |
|------------------------------|---------------------|-------|-----|--------|----------|----------------|---------------|
| Sample Number                | Parameter           | Units | LOR | Result | Expected | Criteria %     | Recovery %    |
| LB205652.002                 | Conductivity @ 25 C | µS/cm | 2   | 310    | 303      | 90 - 110       | 101           |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

| PAH (Polynuclear A | romatic Hydroca | rbons) in Water              |          |     |        | N        | lethod: ME-(A | J)-[ENV]AN420        |
|--------------------|-----------------|------------------------------|----------|-----|--------|----------|---------------|----------------------|
| Sample Number      |                 | Parameter                    | Units    | LOR | Result | Expected | Criteria %    | Recovery %           |
| LB205665.002       |                 | Naphthalene                  | µg/L     | 0.1 | 31     | 40       | 60 - 140      | 77                   |
|                    |                 | Acenaphthylene               | µg/L     | 0.1 | 35     | 40       | 60 - 140      | 87                   |
|                    |                 | Acenaphthene                 | µg/L     | 0.1 | 36     | 40       | 60 - 140      | 91                   |
|                    |                 | Phenanthrene                 | <br>µg/L | 0.1 | 39     | 40       | 60 - 140      | 96                   |
|                    |                 | Anthracene                   | <br>µg/L | 0.1 | 36     | 40       | 60 - 140      | 91                   |
|                    |                 | Fluoranthene                 | <br>µg/L | 0.1 | 38     | 40       | 60 - 140      | 96                   |
|                    |                 | Pyrene                       | <br>µg/L | 0.1 | 36     | 40       | 60 - 140      | 91                   |
|                    |                 | Benzo(a)pyrene               | <br>µg/L | 0.1 | 36     | 40       | 60 - 140      | 89                   |
|                    | Surrogates      | d5-nitrobenzene (Surrogate)  | µg/L     | -   | 0.3    | 0.5      | 40 - 130      | 62                   |
|                    |                 | 2-fluorobiphenyl (Surrogate) | <br>µg/L | -   | 0.4    | 0.5      | 40 - 130      | 78                   |
|                    |                 | d14-p-terphenyl (Surrogate)  | µg/L     | -   | 0.5    | 0.5      | 40 - 130      | 92                   |
| pH in water        |                 |                              |          |     |        | N        | lethod: ME-(A | <b>J)-[ENV]AN101</b> |
| Sample Number      |                 | Parameter                    | Units    | LOR | Result | Expected | Criteria %    | Recovery %           |
| LB205652.003       |                 | pH**                         | No unit  | -   | 7.4    | 7.415    | 98 - 102      | 99                   |

µg/L

µg/L

40

820

10.2

818.71

10

60 - 140

60 - 140

Method: ME-(ALI)-JENV/JAN433

### Trace Metals (Dissolved) in Water by ICPMS

VOCe in Water

| Trace Metals (Dissol | lved) in Water by | ICPMS             |       |     |        | N        | lethod: ME-(A | U)-[ENV]AN318 |
|----------------------|-------------------|-------------------|-------|-----|--------|----------|---------------|---------------|
| Sample Number        |                   | Parameter         | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB205820.002         |                   | Arsenic, As       | µg/L  | 1   | 19     | 20       | 80 - 120      | 93            |
|                      |                   | Cadmium, Cd       | µg/L  | 0.1 | 21     | 20       | 80 - 120      | 107           |
|                      |                   | Chromium, Cr      | µg/L  | 1   | 22     | 20       | 80 - 120      | 109           |
|                      |                   | Copper, Cu        | µg/L  | 1   | 22     | 20       | 80 - 120      | 112           |
|                      |                   | Lead, Pb          | µg/L  | 1   | 22     | 20       | 80 - 120      | 112           |
|                      |                   | Nickel, Ni        | µg/L  | 1   | 21     | 20       | 80 - 120      | 103           |
|                      |                   | Zinc, Zn          | µg/L  | 5   | 22     | 20       | 80 - 120      | 109           |
| TRH (Total Recovera  | able Hydrocarbor  | is) in Water      |       |     |        | N        | lethod: ME-(A | U)-[ENV]AN403 |
| Sample Number        |                   | Parameter         | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB205665.002         |                   | TRH C10-C14       | µg/L  | 50  | 960    | 1200     | 60 - 140      | 80            |
|                      |                   | TRH C15-C28       | µg/L  | 200 | 1200   | 1200     | 60 - 140      | 104           |
|                      |                   | TRH C29-C36       | µg/L  | 200 | 1200   | 1200     | 60 - 140      | 103           |
|                      | TRH F Bands       | TRH >C10-C16      | µg/L  | 60  | 1100   | 1200     | 60 - 140      | 88            |
|                      |                   | TRH >C16-C34 (F3) | µg/L  | 500 | 1400   | 1200     | 60 - 140      | 114           |
|                      |                   | TRH >C34-C40 (F4) | μg/L  | 500 | 590    | 600      | 60 - 140      | 99            |

| VOCs in water      |                   |                                          |       |     |        | , i      | Nethod: ME-(A | (U)-[ENV]AN433 |
|--------------------|-------------------|------------------------------------------|-------|-----|--------|----------|---------------|----------------|
| Sample Number      |                   | Parameter                                | Units | LOR | Result | Expected | Criteria %    | Recovery %     |
| LB205796.002       | Halogenated       | 1,1-dichloroethene                       | µg/L  | 0.5 | 45     | 45.45    | 60 - 140      | 99             |
|                    | Aliphatics        | 1,2-dichloroethane                       | µg/L  | 0.5 | 51     | 45.45    | 60 - 140      | 111            |
|                    |                   | Trichloroethene (Trichloroethylene, TCE) | µg/L  | 0.5 | 48     | 45.45    | 60 - 140      | 106            |
|                    | Halogenated       | Chlorobenzene                            | µg/L  | 0.5 | 56     | 45.45    | 60 - 140      | 123            |
|                    | Monocyclic        | Benzene                                  | µg/L  | 0.5 | 53     | 45.45    | 60 - 140      | 118            |
|                    | Aromatic          | Toluene                                  | µg/L  | 0.5 | 52     | 45.45    | 60 - 140      | 114            |
|                    |                   | Ethylbenzene                             | µg/L  | 0.5 | 51     | 45.45    | 60 - 140      | 112            |
|                    |                   | m/p-xylene                               | µg/L  | 1   | 100    | 90.9     | 60 - 140      | 112            |
|                    |                   | o-xylene                                 | µg/L  | 0.5 | 52     | 45.45    | 60 - 140      | 114            |
|                    | Surrogates        | d4-1,2-dichloroethane (Surrogate)        | µg/L  | -   | 10.2   | 10       | 60 - 140      | 102            |
|                    |                   | d8-toluene (Surrogate)                   | µg/L  | -   | 10.1   | 10       | 70 - 130      | 101            |
|                    |                   | Bromofluorobenzene (Surrogate)           | µg/L  | -   | 9.8    | 10       | 70 - 130      | 98             |
|                    | Trihalomethan     | Chloroform (THM)                         | µg/L  | 0.5 | 54     | 45.45    | 60 - 140      | 118            |
| Volatile Petroleum | Hydrocarbons in V | Vater                                    |       |     |        |          | Method: ME-(A | U)-[ENV]AN433  |
| Sample Number      |                   | Parameter                                | Units | LOR | Result | Expected | Criteria %    | Recovery %     |
| LB205796.002       |                   | TRH C6-C10                               | μg/L  | 50  | 950    | 946.63   | 60 - 140      | 100            |
| 1                  |                   |                                          |       |     |        |          |               |                |

Surrogates

TRH C6-C9

d4-1,2-dichloroethane (Surrogate)

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.

| Volatile Petroleum Hydrocarbons in Water (continued) Method: ME-(AU)-[ENV]AN433 |             |                                |      |        |          |            |            |     |
|---------------------------------------------------------------------------------|-------------|--------------------------------|------|--------|----------|------------|------------|-----|
| Sample Number Parameter Units LOR                                               |             |                                |      | Result | Expected | Criteria % | Recovery % |     |
| LB205796.002                                                                    | Surrogates  | d8-toluene (Surrogate)         | μg/L | -      | 10.1     | 10         | 70 - 130   | 101 |
|                                                                                 |             | Bromofluorobenzene (Surrogate) | μg/L | -      | 9.8      | 10         | 70 - 130   | 98  |
|                                                                                 | VPH F Bands | TRH C6-C10 minus BTEX (F1)     | μg/L | 50     | 640      | 639.67     | 60 - 140   | 100 |



## **MATRIX SPIKES**

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% |
| SE209359.018                                                         | LB205681.004  | Mercury   | mg/L  | 0.0001 | 0.0072 | <0.0001  | 0.008 | 89        |

| Trace | Motole i | Diegolyad | ) in Water b |  |
|-------|----------|-----------|--------------|--|
|       |          |           |              |  |

| race Metals (Di | ssolved) in Water by | ICPMS        |                                   |       |     |                | Ме       | thod: ME-(AU) | )-[ENV]AN31 |
|-----------------|----------------------|--------------|-----------------------------------|-------|-----|----------------|----------|---------------|-------------|
| QC Sample       | Sample Numbe         | r _          | Parameter                         | Units | LOR | Result         | Original | Spike         | Recovery    |
| SE209279.018    | LB205820.004         |              | Arsenic, As                       | µg/L  | 1   | 21             | <1       | 20            | 103         |
|                 |                      |              | Cadmium, Cd                       | µg/L  | 0.1 | 22             | <0.1     | 20            | 112         |
|                 |                      |              | Chromium, Cr                      | µg/L  | 1   | 22             | <1       | 20            | 111         |
|                 |                      |              | Copper, Cu                        | µg/L  | 1   | 23             | <1       | 20            | 115         |
|                 |                      |              | Lead, Pb                          | µg/L  | 1   | 23             | <1       | 20            | 113         |
|                 |                      |              | Nickel, Ni                        | µg/L  | 1   | 21             | <1       | 20            | 104         |
|                 |                      |              | Zinc, Zn                          | µg/L  | 5   | 23             | <5       | 20            | 115         |
| RH (Total Reco  | verable Hydrocarbo   | ns) in Water |                                   |       |     |                | Ме       | thod: ME-(AU) | )-[ENV]AN4  |
| QC Sample       | Sample Numbe         | r            | Parameter                         | Units | LOR | Result         | Original | Spike         | Recovery    |
| SE209379.003    | LB205665.026         |              | TRH C10-C14                       | µg/L  | 50  | 1200           | 76       | 1200          | 97          |
|                 |                      |              | TRH C15-C28                       | µg/L  | 200 | 1400           | <200     | 1200          | 119         |
|                 |                      |              | TRH C29-C36                       | µg/L  | 200 | 1300           | <200     | 1200          | 109         |
|                 |                      |              | TRH C37-C40                       | µg/L  | 200 | <200           | <200     | -             | -           |
|                 |                      |              | TRH C10-C40                       | µg/L  | 320 | 4000           | <320     | -             | -           |
|                 |                      | TRH F Bands  | TRH >C10-C16                      | µg/L  | 60  | 1300           | 76       | 1200          | 104         |
|                 |                      |              | TRH >C10-C16 - Naphthalene (F2)   | µg/L  | 60  | 1300           | 76       | -             | -           |
|                 |                      |              | TRH >C16-C34 (F3)                 | µg/L  | 500 | 1600           | <500     | 1200          | 131         |
|                 |                      |              | TRH >C34-C40 (F4)                 | µg/L  | 500 | 550            | <500     | 600           | 91          |
| OCs in Water    |                      |              |                                   |       |     |                | Me       | thod: ME-(AU) | -[ENV]AN4   |
| C Sample        | Sample Numbe         | r            | Parameter                         | Units | LOR | Original       | Spike    | Recovery%     |             |
| E209471.001     | LB205796.022         | Monocyclic   | Benzene                           | µg/L  | 0.5 | 0              | 45.45    | 101           |             |
|                 |                      | Aromatic     | Toluene                           | µg/L  | 0.5 | 0.01469679013  | 45.45    | 102           |             |
|                 |                      |              | Ethylbenzene                      | µg/L  | 0.5 | 0.00785238680  | 45.45    | 101           |             |
|                 |                      |              | m/p-xylene                        | µg/L  | 1   | 0.03775908721  | 90.9     | 101           |             |
|                 |                      |              | o-xylene                          | µg/L  | 0.5 | 0.00695269748  | 45.45    | 99            | ]           |
|                 |                      | Polycyclic   | Naphthalene                       | µg/L  | 0.5 | 0.02685191580  | -        | -             | ]           |
|                 |                      | Surrogates   | d4-1,2-dichloroethane (Surrogate) | μg/L  | -   | 10.1990400926§ | -        | 104           | 1           |
|                 |                      | -            | d8-toluene (Surrogate)            | μg/L  | -   | 9.83622750120  | -        | 103           | 1           |
|                 |                      |              |                                   |       |     |                |          |               | 1           |

Volatile Petroleum Hydrocarbons in Water

| QC Sample    | Sample Number |            | Parameter                         | Units | LOR | Original       | Spike  | Recovery% |
|--------------|---------------|------------|-----------------------------------|-------|-----|----------------|--------|-----------|
| SE209471.001 | LB205796.022  |            | TRH C6-C10                        | μg/L  | 50  | 0              | 946.63 | 103       |
|              |               |            | TRH C6-C9                         | μg/L  | 40  | 0              | 818.71 | 103       |
|              |               | Surrogates | d4-1,2-dichloroethane (Surrogate) | μg/L  | -   | 10.1990400926§ | -      | 104       |
|              |               |            | d8-toluene (Surrogate)            | µg/L  | -   | 9.83622750120  | -      | 103       |
|              |               |            | Bromofluorobenzene (Surrogate)    | µg/L  | -   | 10.00403796141 | -      | 98        |
|              |               | VPH F      | Benzene (F0)                      | µg/L  | 0.5 | 0              | -      | -         |
|              |               | Bands      | TRH C6-C10 minus BTEX (F1)        | µg/L  | 50  | 0              | 639.67 | 110       |

Bromofluorobenzene (Surrogate)

10.00403796141

98

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

µg/L



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

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.
- 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.
- 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.
- O LOR was raised due to dilution of significantly high concentration of analyte in sample.
- Image: Image:
- Recovery failed acceptance criteria due to sample heterogeneity.
- <sup>®</sup> LOR was raised due to high conductivity of the sample (required dilution).
- t Refer to relevant report comments for further information.

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## STATEMENT OF QA/QC PERFORMANCE

| CLIENT DETAILS |                                                    | LABORATORY DETAI | ILS                                          |
|----------------|----------------------------------------------------|------------------|----------------------------------------------|
| Contact        | Li Wei                                             | Manager          | Huong Crawford                               |
| Client         | EI AUSTRALIA                                       | Laboratory       | SGS Alexandria Environmental                 |
| Address        | SUITE 6.01<br>55 MILLER STREET<br>PYRMONT NSW 2009 | Address          | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone      | 61 2 95160722                                      | Telephone        | +61 2 8594 0400                              |
| Facsimile      | (Not specified)                                    | Facsimile        | +61 2 8594 0499                              |
| Email          | li.wei@eiaustralia.com.au                          | Email            | au.environmental.sydney@sgs.com              |
| Project        | E24724.E02 2 mandala pole, castle hill             | SGS Reference    | SE210081 R1                                  |
| Order Number   | E24724.E02                                         | Date Received    | 18 Aug 2020                                  |
| Samples        | 1                                                  | Date Reported    | 20 Aug 2020                                  |

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).

Samples clearly labelled Yes Complete documentation received Yes SGS Ice Bricks Sample container provider Sample cooling method Samples received in correct containers Sample counts by matrix 1 Water Yes 18/8/2020 Type of documentation received COC Date documentation received Samples received in good order Yes Samples received without headspace Yes Sample temperature upon receipt 12°C Sufficient sample for analysis Yes Turnaround time requested Two Days

SGS Australia Pty Ltd ABN 44 000 964 278

SAMPLE SUMMARY

Environment, Health and Safety

Unit 16 33 Maddox St Alexandria NSW 2015 PO Box 6432 Bourke Rd BC Alexandria NSW 2015

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## HOLDING TIME SUMMARY

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

| Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311(Perth)/AN3 |                   |          |                            |             |                |             |              |             |  |  |  |  |
|--------------------------------------------------------------------|-------------------|----------|----------------------------|-------------|----------------|-------------|--------------|-------------|--|--|--|--|
| Sample Name                                                        | Sample No.        | QC Ref   | Sampled                    | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |  |  |  |  |
| BH4M-a                                                             | SE210081.001      | LB206983 | 18 Aug 2020                | 18 Aug 2020 | 15 Sep 2020    | 19 Aug 2020 | 15 Sep 2020  | 19 Aug 2020 |  |  |  |  |
| 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    |  |  |  |  |
| BH4M-a                                                             | SE210081.001      | LB206994 | 18 Aug 2020                | 18 Aug 2020 | 14 Feb 2021    | 19 Aug 2020 | 14 Feb 2021  | 19 Aug 2020 |  |  |  |  |



## **SURROGATES**

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

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

No surrogates were required for this job.



## SE210081 R1

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-(A | AU)-[ENV]AN311(Perth)/AN312 |         |
|------------------------------|-----------|---------------|-----------------------------|---------|
| Sample Number                | Parameter | Units         | LOR                         | Result  |
| LB206983.001                 | Mercury   | mg/L          | 0.0001                      | <0.0001 |

### Trace Metals (Dissolved) in Water by ICPMS

| Trace Metals (Dissolved) in Water by ICPM |              |       |     | od: ME-(AU)-[ENV]AN318 |
|-------------------------------------------|--------------|-------|-----|------------------------|
| Sample Number                             | Parameter    | Units | LOR | Result                 |
| LB206994.001                              | Arsenic, As  | μg/L  | 1   | <1                     |
|                                           | Cadmium, Cd  | µg/L  | 0.1 | <0.1                   |
|                                           | Chromium, Cr | µg/L  | 1   | <1                     |
|                                           | Copper, Cu   | μg/L  | 1   | <1                     |
|                                           | Lead, Pb     | μg/L  | 1   | <1                     |
|                                           | Nickel, Ni   | μg/L  | 1   | <1                     |
|                                           | Zinc, Zn     | μg/L  | 5   | <5                     |



Method: ME-(AU)-[ENV]AN318

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.

| Mercury (dissolved) | Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311(Perth)/AN3 |           |       |        |          |           |            |       |  |  |  |
|---------------------|--------------------------------------------------------------------|-----------|-------|--------|----------|-----------|------------|-------|--|--|--|
| Original            | Duplicate                                                          | Parameter | Units | LOR    | Original | Duplicate | Criteria % | RPD % |  |  |  |
| SE210081.001        | LB206983.014                                                       | Mercury   | µg/L  | 0.0001 | < 0.0001 | 0.0000    | 200        | 65    |  |  |  |
| SE210105.002        | LB206983.018                                                       | Mercury   | µg/L  | 0.0001 | -0.00472 | -0.01744  | 200        | 0     |  |  |  |

### Trace Metals (Dissolved) in Water by ICPMS

| Original     | Duplicate    | Parameter    | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|--------------|-------|-----|----------|-----------|------------|-------|
| SE210081.001 | LB206994.011 | Arsenic, As  | μg/L  | 1   | 2        | 2         | 69         | 1     |
|              |              | Cadmium, Cd  | μg/L  | 0.1 | 0.2      | 0.2       | 59         | 0     |
|              |              | Chromium, Cr | μg/L  | 1   | 1        | 1         | 84         | 1     |
|              |              | Copper, Cu   | μg/L  | 1   | 22       | 22        | 20         | 2     |
|              |              | Lead, Pb     | μg/L  | 1   | 30       | 30        | 18         | 0     |
|              |              | Nickel, Ni   | μg/L  | 1   | 38       | 37        | 18         | 3     |
|              |              | Zinc, Zn     | µg/L  | 5   | 240      | 230       | 17         | 4     |



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.

| race Metals (Dissolved) in W |              |       | _   |        |          | Nethod: ME-(A | o)-[Entripato |
|------------------------------|--------------|-------|-----|--------|----------|---------------|---------------|
| Sample Number                | Parameter    | Units | LOR | Result | Expected | Criteria %    | Recovery %    |
| LB206994.002                 | Arsenic, As  | μg/L  | 1   | 19     | 20       | 80 - 120      | 95            |
|                              | Cadmium, Cd  | μg/L  | 0.1 | 21     | 20       | 80 - 120      | 104           |
|                              | Chromium, Cr | μg/L  | 1   | 21     | 20       | 80 - 120      | 105           |
|                              | Copper, Cu   | μg/L  | 1   | 21     | 20       | 80 - 120      | 106           |
|                              | Lead, Pb     | μg/L  | 1   | 21     | 20       | 80 - 120      | 107           |
|                              | Nickel, Ni   | μg/L  | 1   | 21     | 20       | 80 - 120      | 103           |
|                              | Zinc, Zn     | µg/L  | 5   | 21     | 20       | 80 - 120      | 103           |



## **MATRIX SPIKES**

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

| Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311(Perth)/ |               |           |       |        |        |          |       |           |
|-----------------------------------------------------------------|---------------|-----------|-------|--------|--------|----------|-------|-----------|
| QC Sample                                                       | Sample Number | Parameter | Units | LOR    | Result | Original | Spike | Recovery% |
| SE210001.008                                                    | LB206983.004  | Mercury   | mg/L  | 0.0001 | 0.0077 | -0.01506 | 0.008 | 96        |



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

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.
- 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.
- 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.
- O LOR was raised due to dilution of significantly high concentration of analyte in sample.
- Image: Image:
- Recovery failed acceptance criteria due to sample heterogeneity.
- <sup>®</sup> LOR was raised due to high conductivity of the sample (required dilution).
- t Refer to relevant report comments for further information.

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SGS Environmental Services is accredited by NATA for Chemical Testing (Reg.No.2562) and Quality System compliance to ISO/IEC 17025. The QC parameters contained within are designed to meet NEPM 1999 requirements.

Quality Control samples included in any analytical run are listed below.

| Reagent/Analysis Blank<br>(BLK)<br>Method Blank (MB)                 | Sample free reagents carried through the preparation/extraction/digestion procedure and analysed at the beginning of every sample batch analysis. A reagent blank is prepared and analysed with every batch of samples plus with each new batch of solvent prior to use.                                                                                                                                                                                            |  |  |  |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Sample Matrix Spike<br>(MS) & Matrix Spike<br>Duplicate (MSD)        | Sample replicates spiked with identical concentrations of target analyte(s). The spiking occurs during the sample preparation and <u>prior to the extraction/digestion procedure</u> . They are used to document the precision and bias of a method in a given sample matrix. Where there is not enough sample available to prepare a spiked sample, another known soil/sand or water may be used. A duplicate spiked sample is analysed at least every 20 samples. |  |  |  |
| Surrogate Spike (SS)                                                 | At least one but up to three surrogate compounds are added to all samples requiring analysis for organics prior to extraction. Used to determine the extraction efficiency. They are organic compounds which are similar to the arget analyte(s) in chemical composition and behaviour in the analytical process, but which are not normally found in environmental samples. Where possible they are surrogate compounds recommended by the USEPA.                  |  |  |  |
| Control Matrix Spike<br>(CMS)                                        | To ensure spike recoveries can be determined for every batch of samples a control matrix is spiked with identical concentrations of target analyte(s) and then analysed. These results allow recoveries to be determined in the event that the matrix spikes are unusable (eg. matrix spikes performed on heavily contaminated samples). These are analysed at least every 20 samples.                                                                              |  |  |  |
| Internal Standard (IS)                                               | Added to all samples requiring analysis for organics (where relevant) after the extraction process; the compounds serve to give a standard of retention time and response, which is invariant from run-to-run with the instruments. Where possible they are standard compounds recommended by the USEPA.                                                                                                                                                            |  |  |  |
| Lab Duplicates (D)                                                   | A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.                                                                                                                                                                                                                                                                                                     |  |  |  |
| Lab Control<br>Standards/Samples<br>(LCS)                            | Prepared from a source independent of the calibration standards. At least one control standard is included in each run to confirm calibration validity. Thereafter they are analysed at least every one in 20 samples plus at the end of each analytical run. This data is not reported.                                                                                                                                                                            |  |  |  |
| Continuous Calibration<br>Verification (CCV) or<br>Calibration Check | A calibration check standard or CCV and blank are run after every 20 samples of an instrumental analysis run to assess analytical drift. Calibration Standards are checked old versus new with a criteria of ±10%                                                                                                                                                                                                                                                   |  |  |  |
| Standard & Blank                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |



Quality Assurance Programs are listed below:

| Statistical analysis of<br>Quality Control data<br>(SQC)                                                                                                    | Quality control data is plotted on control charts using the APHA procedure with warning and control limits at 2 and 3 standard deviations respectively. See also QMS Procedure "Statistical Quality Control".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Certified Reference<br>Materials (CRM/SRM)                                                                                                                  | Certified Reference Materials and Standards are regularly analysed. These materials/standards have certified reference values for various parameters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Proficiency Testing                                                                                                                                         | Regular proficiency test samples are analysed by our laboratories. SGS<br>Environmental participates in a number of programs. Results and proficiency<br>status are compiled and sent to participating laboratory post data interpretation.<br>Failure to comply with acceptable values result in further investigations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| Inter-laboratory & Intra-<br>laboratory Testing                                                                                                             | SGS Environmental Services has schedules in the Quality Systems to participate in Inter/Intra laboratory testing conducted internally and by other parties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Data Acceptance Criteria<br>Unless otherwise specified in<br>the method or method manual<br>the following general criteria<br>apply to all inorganic tests. | <ul> <li>Failure to meet the internal acceptance criteria will result in sample batch repeats dependent upon investigation outcomes. For data to be accepted:</li> <li><u>Inorganics (water samples)</u></li> <li>For all inorganic analytes the Reagent &amp; Method Blanks must be less than the LOR.</li> <li>The Calibration Check Standards or Continuous Calibration Verification (CCV) must be within ±15%.</li> <li>Control Standards must be 80-120% of the accepted value.</li> <li>The Calibration Check Blanks must be less than the LOR.</li> <li>Lab Duplicates RPD to be &lt;15%*. Note: If client <u>field</u> duplicates do not meet this criteria it may indicate heterogeneity and shall be noted on the data reports for QC samples.</li> <li>Sample (and if applicable Control) Matrix Spike<sup>J*</sup> Duplicate recovery RPD to be &lt;30%.</li> <li>Where CRMs are used, results to be within ±2 standard deviations of the expected value.</li> <li><u>Inorganics (soil samples)</u></li> <li>For all inorganic analytes the Reagent &amp; Method Blanks must be less</li> </ul> |  |  |  |
| All recoveries are to be<br>reported to 3 significant<br>figures.                                                                                           | <ul> <li>than the LOR.</li> <li>The Calibration Check Standards or Continuous Calibration Verification (CCV) must be within <sup>±</sup>15%.</li> <li>Control Standards must be 80-120% of the accepted value.</li> <li>The Calibration Check Blanks must be less than the LOR.</li> <li>Lab duplicate RPD to be &lt;30%* for sample results greater than 10 times LOR.</li> <li>Sample Matrix Spike Duplicate (MS<sup>-#</sup>/MSD) recovery RPD to be &lt;30%. In the event that the matrix spike has been applied to samples whose matrix or contamination is problematic to the method then these acceptance criteria apply to the Control Matrix Spike (CMS/D).</li> <li>Where CRMs are used, results to be within ± 2 standard deviations of the expected value.</li> </ul>                                                                                                                                                                                                                                                                                                                           |  |  |  |



|                                                                                                                                                                                                                                | <u>Organics</u>                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                | <ul> <li>Volatile &amp; extractable Reagent &amp; Method Blanks must contain levels<br/>less than or equal to LOR.</li> </ul>                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                | <ul> <li>The Calibration Check Standards or Continuous Calibration<br/>Verification (CCV) must be within <sup>±</sup>25%. Some analytes may have<br/>specific criteria.</li> </ul>                                                                                                                                                     |
|                                                                                                                                                                                                                                | <ul> <li>Control Standards (LCS/CMS) and Certified Reference Materials<br/>(CRM) recoveries are to be within established control limits or as a<br/>default 60-140% unless compound specific limits apply.</li> </ul>                                                                                                                  |
|                                                                                                                                                                                                                                | <ul> <li>Retention times are to vary by no more than 0.2 min.</li> </ul>                                                                                                                                                                                                                                                               |
| Data Acceptance Criteria<br>Unless otherwise specified in<br>the method or method manual<br>the following general criteria<br>apply to all organic tests.<br>All recoveries are to be<br>reported to 3 significant<br>figures. | • At least two of three routine level soil sample Surrogate Spike (SS) recoveries 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 acceptance criterion. Any recoveries outside these limits will have comment. |
|                                                                                                                                                                                                                                | <ul> <li>Water sample Surrogates Spike (SS) recoveries are to be within 40-<br/>130%. The presence of emulsions, surfactants and particulates may<br/>void this as an acceptance criterion. Any recoveries outside these<br/>limits will have comment.</li> </ul>                                                                      |
| 0                                                                                                                                                                                                                              | <ul> <li>Lab Duplicates (D) must have a RPD &lt;30%*.</li> </ul>                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                | <ul> <li>Sample Matrix Spike Duplicate (MS<sup>,*</sup>/MSD) recovery RPD to be<br/>&lt;30%. In the event that the matrix spike has been applied to samples<br/>whose matrix or contamination is problematic to the method then<br/>these acceptance criteria apply to the Control Matrix Spike (CMS/D).</li> </ul>                    |

\*Only if results are at least 10 times the LOR otherwise no acceptance criteria for RPD's apply. Application of more stringent criteria shall be applied for clean water sample from water boards and any other nominated client contracts. Nominal 10xLOR criteria are dropped to 5xLOR where specified. <sup>A</sup>Matrix do not readily equate to definitive recovery due to inherent matrix interferences and thus do not have recovery compliance values set. As a guide inorganic recoveries should be between 70-130% and for organics 60-130%

### Batch Structure Summary

An analytical batch is nominally considered as 20 samples or smaller. As a standard template the following should be **used as a guide** according to the above Quality Control Types:

| 1  | MB                        | 16 | UNK DUP                   |
|----|---------------------------|----|---------------------------|
| 2  | STD1                      | 17 | MS                        |
| 3  | STD2                      | 18 | MS_DUP                    |
| 4  | STD3                      | 19 | UNK 11                    |
| 5  | LCS                       | 20 | UNK 12                    |
| 6  | BLK                       | 21 | UNK 13                    |
| 7  | UNK 1                     | 22 | UNK 14                    |
| 8  | UNK 2                     | 23 | UNK 15                    |
| 9  | UNK 3                     | 24 | UNK 16                    |
| 10 | UNK 4                     | 25 | UNK 17                    |
| 11 | UNK 5                     | 26 | UNK 18                    |
| 12 | UNK 6                     | 27 | UNK 19                    |
| 13 | UNK 7                     | 28 | UNK 20 (SS if applicable) |
| 14 | UNK 8                     | 29 | UNK_DUP                   |
| 15 | UNK 9                     | 30 | CCV                       |
| 16 | UNK 10 (SS if applicable) | 31 | CRM / SRM / CMS / LCS     |

| Table QC1 - Containers, Preservation Requirements and Holding Times - Soil           |                          |                        |                         |  |
|--------------------------------------------------------------------------------------|--------------------------|------------------------|-------------------------|--|
| Parameter                                                                            | Container                | Preservation           | Maximum<br>Holding Time |  |
| Acid digestible metals and<br>metalloids - Total and TCLP<br>(As,Cd.,Cu,Cr,Ni,Pb,Zn) | Glass with<br>Teflon Lid | Nil                    | 6 months                |  |
| Mercury                                                                              | Glass with<br>Teflon Lid | Nil                    | 28 days                 |  |
| TPH / BTEX / VOC / SVOC / CHC                                                        | Glass with<br>Teflon Lid | 4°C, zero<br>headspace | 14 days                 |  |
| PAHs (total and TCLP)                                                                | Glass with<br>Teflon Lid | 4°C <sup>1</sup>       | 14 days                 |  |
| Phenols                                                                              | Glass with<br>Teflon Lid | 4°C <sup>1</sup>       | 14 days                 |  |
| OCPs, OPPs and total PCBs                                                            | Glass with<br>Teflon Lid | 4°C <sup>1</sup>       | 14 days                 |  |
| Asbestos                                                                             | Sealed Plastic<br>Bag    | Nil                    | N/A                     |  |

| Table QC2 - Containers, Preservation Requirements and Holding Times - Water |                          |                                                   |                         |  |
|-----------------------------------------------------------------------------|--------------------------|---------------------------------------------------|-------------------------|--|
| Parameter                                                                   | Container<br>Volume (mL) | Preservation                                      | Maximum<br>Holding Time |  |
| Heavy Metals                                                                | 125mL Plastic            | Field filtration 0.45µm<br>HNO <sub>3</sub> / 4°C | 6 months                |  |
| Cyanide                                                                     | 125mL Amber<br>Glass     | pH > 12 NaOH / 4°C                                | 6 months                |  |
| TPH (C6-C9) / BTEX / VOCs<br>SVOCs / CHCs                                   | 4 x 43mL Glass           | HCI / 4°C <sup>1</sup>                            | 14 days                 |  |
| TPH (C10-C36) / PAH / Phenolics<br>OCP / OPP / TDS / pH                     | 3 x 1L Amber<br>Glass    | None / 4ºC <sup>1</sup>                           | 28 days                 |  |

**Notes:** <sup>1</sup> = Extraction within 14 days, Analysis within 40 days.

| Table QC3 - Analytical Parameters, PQLs and Methods - Soil |                  |                       |                  |  |
|------------------------------------------------------------|------------------|-----------------------|------------------|--|
| Parameter                                                  | Unit             | PQL                   | Method Reference |  |
|                                                            | Meta             | ls in Soil            |                  |  |
| Arsenic - As <sup>1</sup>                                  | mg / kg          | 1                     | USEPA 200.7      |  |
| Cadmium - Cd <sup>1</sup>                                  | mg / kg          | 0.5                   | USEPA 200.7      |  |
| Chromium - Cr <sup>1</sup>                                 | mg / kg          | 1                     | USEPA 200.7      |  |
| Copper - Cu <sup>1</sup>                                   | mg / kg          | 1                     | USEPA 200.7      |  |
| Lead - Pb <sup>1</sup>                                     | mg / kg          | 1                     | USEPA 200.7      |  |
| Mercury - Hg <sup>2</sup>                                  | mg / kg          | 0.1                   | USEPA 7471A      |  |
| Nickel - Ni <sup>1</sup>                                   | mg / kg          | 1                     | USEPA 200.7      |  |
| Zinc - Zn <sup>1</sup>                                     | mg / kg          | 1                     | USEPA 200.7      |  |
| Tota                                                       | al Petroleum Hyd | rocarbons (TP         | Hs) in Soil      |  |
| $C_6$ - $C_9$ fraction                                     | mg / kg          | 25                    | USEPA 8260       |  |
| C <sub>10</sub> -C <sub>14</sub> fraction                  | mg / kg          | 50                    | USEPA 8000       |  |
| C <sub>15</sub> -C <sub>28</sub> fraction                  | mg / kg          | 100                   | USEPA 8000       |  |
| C <sub>29</sub> -C <sub>36</sub> fraction                  | mg / kg          | 100                   | USEPA 8000       |  |
|                                                            | BTE              | X in Soil             |                  |  |
| Benzene                                                    | mg / kg          | 1                     | USEPA 8260       |  |
| Toluene                                                    | mg / kg          | 1                     | USEPA 8260       |  |
| Ethylbenzene                                               | mg / kg          | 1                     | USEPA 8260       |  |
| m & p Xylene                                               | mg / kg          | 2                     | USEPA 8260       |  |
| o- Xylene                                                  | mg / kg          | 1                     | USEPA 8260       |  |
|                                                            | Other Organic C  | ontaminants i         | n Soil           |  |
| PAHs                                                       | mg / kg          | 0.05-0.2              | USEPA 8270       |  |
| CHCs                                                       | mg / kg          | 1                     | USEPA 8260       |  |
| VOCs                                                       | mg / kg          | 1                     | USEPA 8260       |  |
| SVOCs                                                      | mg / kg          | 1                     | USEPA 8260       |  |
| OCPs                                                       | mg / kg          | 0.1                   | USEPA 8140, 8080 |  |
| OPPs                                                       | mg / kg          | 0.1                   | USEPA 8140, 8080 |  |
| PCBs                                                       | mg / kg          | 0.1                   | USEPA 8080       |  |
| Phenolics                                                  | mg / kg          | 5                     | APHA 5530        |  |
|                                                            | As               | bestos                |                  |  |
| Asbestos                                                   | mg / kg          | Presence /<br>Absence | AS4964-2004      |  |

Notes:

1. Acid Soluble Metals by ICP-AES

2. Total Recoverable Mercury

| Parameter                                 | Unit         | PQL         | Method                   | Parameter                  | Unit         | PQL       | Method                   |
|-------------------------------------------|--------------|-------------|--------------------------|----------------------------|--------------|-----------|--------------------------|
| Heavy Metals                              |              |             | Chlorinated              | l Hydroc                   | arbons       | (CHCs)    |                          |
| Antimony - Sb                             | μg/L         | 1           | USEPA 200.8              | 1,2-dichlorobenzene        | μg/L         | 1         | USEPA 8260B              |
| Arsenic - As                              | μg/L         | 1           | USEPA 200.8              | 1,3-dichlorobenzene        | μg/L         | 1         | USEPA 8260B              |
| Beryllium - Be                            | μg/L         | 0.5         | USEPA 200.8              | 1,4-dichlorobenzene        | μg/L         | 1         | USEPA 8260B              |
| Cadmium - Cd                              | μg/L         | 0.1         | USEPA 200.8              | 1,2,3-trichlorobenzene     | μg/L         | 1         | USEPA 8260B              |
| Chromium - Cr                             | μg/L         | 1           | USEPA 200.8              | 1,2,4-trichlorobenzene     | μg/L         | 1         | USEPA 8260B              |
| Cobalt - Co                               | μg/L         | 1           | USEPA 200.8              | Hexachlorobutadeine        | μg/L         | 1         | USEPA 8260B              |
| Copper - Cu                               | μg/L         | 1           | USEPA 200.8              | 1,1,2-trichloroethane      | μg/L         | 1         | USEPA 8260B              |
| Lead - Pb                                 | μg/L         | 1           | USEPA 200.8              | Hexachloroethane           | μg/L         | 10        | USEPA 8270D              |
| Mercury - Hg                              | μg/L         | 0.5         | USEPA 7471A              | Other CHCs                 | μg/L         | 1         | USEPA 8260B              |
| Molybdenum - Mo                           | μg/L         | 1           | USEPA 200.8              | Volatile Orga              |              | npound    | s (VOCs)                 |
| Nickel - Ni                               | μg/L         | 1           | USEPA 200.8              | Aniline                    | μg/L         | 10        | USEPA 8260B              |
| Selenium - Se                             | μg/L         | 1           | USEPA 200.8              | 2,4-dichloroaniline        | μg/L         | 10        | USEPA 8260B              |
| Silver - Ag                               | μg/L         | 1           | USEPA 200.8              | 3,4-dichloroaniline        | μg/L         | 10        | USEPA 8260B              |
| Tin (inorg.) - Sn                         | μg/L         | 1           | USEPA 200.8              | Nitrobenzene               | μg/L         | 50        | USEPA 8260B              |
| Nickel - Ni                               | μg/L         | 1           | USEPA 200.8              | 2,4-dinitrotoluene         | μg/L         | 50        | USEPA 8260B              |
| Zinc - Zn                                 | μg/L         | 1           | USEPA 200.8              | 2,4,6-trinitrotoluene      | μg/L         | 50        | USEPA 8260B              |
|                                           |              |             | ons (TPHs)               | Phenolic Compounds         |              |           |                          |
| C <sub>6</sub> -C <sub>9</sub> fraction   | μg/L         | 10          | USEPA 8220A /<br>8000    | Phenol                     | μg/L         | 10        | USEPA 8041               |
| C <sub>10</sub> -C <sub>14</sub> fraction | μg/L         | 50          | USEPA 8000               | 2-chlorophenol             | μg/L         | 10        | USEPA 8041               |
| C <sub>15</sub> -C <sub>28</sub> fraction | μg/L         | 100         | USEPA 8000               | 4-chlorophenol             | μg/L         | 10        | USEPA 8041               |
| C <sub>29</sub> -C <sub>36</sub> fraction | μg/L         | 100         | USEPA 8000               | 2, 4-dichlorophenol        | μg/L         | 10        | USEPA 8041               |
|                                           | BT           | ΈX          |                          | 2,4,6-trichlorophenol      | μg/L         | 10        | USEPA 8041               |
| Benzene                                   | μg/L         | 1           | USEPA 8220A              | 2,3,4,6-tetrachlorophenol  | μg/L         | 10        | USEPA 8041               |
| Toluene                                   | μg/L         | 1           | USEPA 8220A              | Pentachlorophenol          | μg/L         | 10        | USEPA 8041               |
| Ethylbenzene                              | μg/L         | 1           | USEPA 8220A              | 2,4-dinitrophenol          | μg/L         | 10        | USEPA 8041               |
| m- & p-Xylene                             | μg/L         | 2           | USEPA 8220A              | Miscella                   | aneous       | Paramet   | ters                     |
| o-Xylene                                  | μg/L         | 1           | USEPA 8220A              | Total Cyanide              | μg/L         | 5         | APHA 4500C&E-CN          |
| Polyciclic Are                            | omatic F     | lydrocai    | rbons (PAHs)             | Fluoride                   | μg/L         | 10        | APHA 4500 F-C            |
| PAHs                                      | μg/L         | 0.1         | USEPA 8270               | Salinity (TDS)             | mg/L         | 1         | APHA 2510                |
| Benzo(a)pyrene                            | μg/L         | 0.01        | USEPA 8270               | рН                         | units        | 0.1       | APHA 4500H+              |
| OrganoChlorine Pesticides (OCPs)          |              | OrganoPhos  | phate P                  | esticide                   | s (OPPs)     |           |                          |
| Aldrin                                    | μg/L         | 0.001       | USEPA 8081               | Azinphos Methyl            | μg/L         | 0.01      | USEPA 8141               |
| Chlordane                                 | μg/L         | 0.001       | USEPA 8081               | Chloropyrifos              | μg/L         | 0.01      | USEPA 8141               |
| DDT<br>Dialahin                           | μg/L         | 0.001       | USEPA 8081               | Diazinon                   | μg/L         | 0.01      | USEPA 8141               |
| Dieldrin<br>Endosulfan                    | μg/L         | 0.001       | USEPA 8081               | Dimethoate<br>Expitrathion | μg/L         | 0.01      | USEPA 8141               |
|                                           | μg/L         | 0.001       | USEPA 8081               | Fenitrothion               | μg/L         | 0.01      | USEPA 8141               |
| Endrin<br>Heptachlor                      | μg/L         | 0.001 0.001 | USEPA 8081<br>USEPA 8081 | Malathion<br>Parathion     | μg/L         | 0.01 0.01 | USEPA 8141<br>USEPA 8141 |
| Lindane                                   | μg/L<br>μg/L | 0.001       | USEPA 8081               | Temephos                   | μg/L<br>μg/L | 0.01      | USEPA 8141<br>USEPA 8141 |
| Toxaphene                                 | μg/L<br>μg/L | 0.001       | USEPA 8081               | Polychlorin                |              |           |                          |
|                                           | μg/∟         | 0.001       |                          | Individual PCBs            | μg/L         | 0.01      | USEPA 8081               |

# Table QC4 - Analytical Parameters, PQLs and Methods - Groundwater

| QC Sample Type                                 | Method of Assessment                                                                                                                                                                                                                                                                                                                                                     | Acceptable Range                                                                                                                                                                                                                                                                                                            |  |  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                | Field QC                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |  |  |
| Blind Duplicates and<br>Split Samples          | The assessment of split duplicate is undertaken by calculating the Relative Percent Difference (RPD) of the duplicate concentration compared with the primary sample concentration. The RPD is defined as:<br>$RPD = 100 \times \frac{ X_1 - X_2 }{mean (X1, X2)}$ Where: X <sub>1</sub> and X <sub>2</sub> are the concentrations of the primary and duplicate samples. | <ul> <li>The acceptable range depends upon the levels detected:</li> <li>0-150% RPD (when the average concentration is &lt;5 times the LOR/PQL)</li> <li>0-75% RPD (when the average concentration is 5 to 10 times the LOR/PQL)</li> <li>0-50% RPD (when the average concentration is &gt;10 times the LOR/PQL)</li> </ul> |  |  |
| Rinsate &<br>Trip Blanks                       | Each blank is analysed as per the original samples.                                                                                                                                                                                                                                                                                                                      | Analytical Result <lor pql<="" td=""></lor>                                                                                                                                                                                                                                                                                 |  |  |
| _aboratory prepared<br>Frip Spike              | The Trip Spike is analysed after<br>returning from the field and the %<br>recovery of the known spike is<br>calculated.                                                                                                                                                                                                                                                  | 70 - 130%                                                                                                                                                                                                                                                                                                                   |  |  |
|                                                | Laboratory QC                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                             |  |  |
| Laboratory Duplicates                          | Assessment of Lab Duplicate RPD as per Blind<br>Duplicates and<br>Split Samples.                                                                                                                                                                                                                                                                                         | Lab Duplicate RPD < 15% (Inorganics)<br>Lab Duplicate RPD < 30% (Organics) for sample<br>results > 10 LOR                                                                                                                                                                                                                   |  |  |
| Surrogates                                     | Assessment is undertaken by determining<br>the percent recovery of the known surrogate spike<br>(SS) or addition to the sample.                                                                                                                                                                                                                                          | at least 2 SS recoveries to be within 70-130% subject to matrix effects (Organics)                                                                                                                                                                                                                                          |  |  |
| Matrix Spikes<br>_aboratory Control<br>Samples | % Recovery = $100 \times \frac{C - A}{B}$<br>Where: A = Concentration of analyte determined<br>in the original sample;<br>B = Added Concentration; and<br>C = Calculated Concentration.                                                                                                                                                                                  | 80-120% (Inorganics / Metals)<br>60-140% (Organics)<br>10-140% (SVOC and Speciated Phenols)<br>If the result is outside the above ranges, the<br>result must be <3x Standard Deviation of the<br>Historical Mean (calculated over the past<br>12 months).                                                                   |  |  |
| Sample Matrix Spike<br>Duplicates              | Recovery RPD                                                                                                                                                                                                                                                                                                                                                             | <30% (Inorganics & Organics)                                                                                                                                                                                                                                                                                                |  |  |
| Calibration Check Standars                     | Continuous Calibration Verification (CCV)                                                                                                                                                                                                                                                                                                                                | CCV must be within ±15% (inorganics)<br>CCV must be within ±25% (inorganics)                                                                                                                                                                                                                                                |  |  |
| Reagent, Method & Calibration<br>Check Blanks  | Each blank is analysed as per the original samples.                                                                                                                                                                                                                                                                                                                      | Analytical Result <lor pql<="" td=""></lor>                                                                                                                                                                                                                                                                                 |  |  |