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Cowra Hospital Redevelopment – Detailed Site Investigation (Contamination)

# Detailed Site Investigation (Contamination)

Client Reference No. 30013211 DSI
Prepared for: NSW Health Infrastructure
23 December 2022

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# Abbreviations and Acronyms

| Abbreviation / Acronym | Meaning |
|---|---|
| ABC | Ambient Background Concentrations |
| ACL | Added Contaminant Limits |
| ACM | Asbestos Containing Material |
| AEC | Areas of Environmental Concern |
| BaP | Benzo(a)pyrene |
| BTEX | Benzene Toluene Ethylbenzene Xylene |
| B/W | Black and White |
| CoC | Chain of Custody |
| CoPC | Contaminants of Potential Concern |
| CSM | Conceptual Site Model |
| DNAPL | Dense Non-Aqueous Phase Liquid |
| DQI | Data Quality Indicator |
| DQO | Data Quality Objective |
| DSI | Detailed Site Investigation |
| EIL | Ecological Investigation Level |
| EPA | Environmental Protection Authority |
| EPL | Environment Protection Licence |
| ESL | Ecological Screening Level |
| GPR | Ground Penetrating Radar |
| GSW | General Solid Waste |
| HIL | Health Investigation Level |
| HSL | Health Screening Level |
| LCS | Laboratory Control Samples |
| LNAPL | Light Non-Aqueous Phase Liquid |
| LOR | Limit of Reporting |

| Abbreviation / Acronym | Meaning |
|---|---|
| LPS | Laboratory Prepared Spikes |
| m | Metres |
| m AHD | Metres Australian Height Datum |
| m bgl | Metres below ground level |
| OCP | Organochlorine pesticides |
| OPP | Organophosphorus pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PCB | Polychlorinated Biphenyls |
| PID | Photoionisation Detector |
| PPE | Personal Protective Equipment |
| PQL | Practical Quantitation Limit |
| PSI | Preliminary Site Investigation |
| QA/QC | Quality Assurance and Quality Control |
| RAP | Remedial Action Plan |
| RPD | Relative Percentage Difference |
| SAQP | Sampling, Analysis and Quality Plan |
| SCC | Specific Contaminant Concentration |
| SOPs | Standard Operating Procedures |
| SWL | Standing Water Level |
| SWMS | Safe Work Method Statements |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxicity Equivalent Quotient |
| TRH | Total Recoverable Hydrocarbons |
| USCS | Unified Soil Classification System |
| UST | Underground Storage Tank |
| VHC | Volatile Halogenated Compounds |
| VOC | Volatile Organic Compounds |
| WTP | Water Treatment Plant |
| WQO | Water Quality Objective |

# 1. Introduction

## 1.1 General

SMEC Australia Pty Ltd (SMEC) has been engaged by NSW Health Infrastructure to carry out a Detailed Site Investigation (DSI) within Cowra Hospital located at 64 Liverpool Street, Cowra, NSW (the Site) as part of the investigation phase of the proposed site redevelopment.

Health Infrastructure require a geotechnical and contaminated land assessment of the Cowra Hospital to inform planning for future development works in two stages - Stage 1 Master Planning & Stage 2 Feasibility Development. A range of options are being considered for the site comprising new build and refurbishment. Stage 1 of the project included a Geotechnical Investigation (Macquarie Geotechnical, 2022) and a Preliminary Site Investigation (PSI) (SMEC 2022) which also included limited soil sampling. Stage 2 includes a more detailed assessment of contaminated land expanding on works and outcomes from Stage 1.

The PSI identified a range of potential contamination sources based on the site history and site observations and a DSI was recommended and a SAQP for a DSI was prepared. This report presents the DSI findings.

The Site location and layout is presented in Figure 1, Appendix A.

## 1.2 Proposed development

Cowra hospital is proposed to be refurbished and upgraded due to the age of the facility. Health Infrastructure has identified opportunities for refurbishment, particularly for ambulatory care and administration and support spaces. Development zones have been identified on the existing campus which would allow for major expansion and/or complete re-build of the existing health service facility. This would involve the decant and demolish of the majority of existing buildings in the long term. The wider project will provide either a redevelopment of the existing site, or a new hospital facility on a greenfield site that services Cowra and the surrounding towns.

Works were carried out based on masterplan design and more updated copies of civil drawings and schematic design as provided to SMEC (19/12/2022) are included in Appendix C. The option shows all existing structures being demolished (in stages) and new hospital buildings constructed in the northern part of the site. Part of the construction will involve cutting into the existing sloping land, in parts up to about 6.5m.

## 1.3 Objectives

The objectives of the proposed DSI were to:

- Assess the potential for contamination to be present at the Site from past or present activities
- Assess if contamination potentially poses a risk to human health or the environment
- Assess if the site is suitable for the proposed development in its current state or can reasonably be made suitable
- Provide recommendations on the need for further investigations and/or remediation/management based on the findings
- Assess whether contamination characteristics and concentrations trigger the requirements for reporting within the Guidelines on the Duty to Report Contamination under the CLM Act (NSW EPA, 2015)
- Provide data to inform waste disposal in relation to waste classification and resource recovery.

## 1.4 Scope of report

To fulfil the above objectives, the following scope of works was undertaken:

- PSI: Desktop review, including review of:
  - Published information relating to the Site including geological, soil landscape and topographical mapping
  - Groundwater bores registered with WaterNSW
  - Selected historical aerial photographs
  - Schedule 11 Hazardous Chemicals on premises held by SafeWork NSW
  - NSW Environmental Protection Authority (EPA) contaminated land POEO licence online databases
  - Section 10.7 (2) Planning Certificates
  - Council planning records
- Interviews with persons with knowledge of the history of the Site
- Site walkover by an Experienced Environmental Scientist to assess conditions of the site and surrounds, and potential contamination source/activities
- DSI: Implementing the SAQP prepared by SMEC by:
  - Sampling of soils at targeted locations across the Site within selected identified areas of environmental concern
  - Installing groundwater monitoring wells
  - Laboratory testing of soil samples at a NATA accredited laboratory for the identified contaminants of potential concern
- Updating the conceptual site model (CSM)
- Preparing this report presenting the findings of the assessment and making conclusions and recommendations as per the objectives identified in Section 1.3 above.

## 1.5 Published guidelines

This DSI was prepared with reference to the following applicable published guidelines:

- Australian Standard AS4482.1-2005 Guide the investigation and sampling of site with potentially contaminated soil Part 1: Non-volatile and semi-volatile compounds.
- NEPC, National Environment Protection (Assessment of site contamination) Measure 1999.
- NSW EPA (1995), Sampling Design Guidelines, ISBN 0 7310 3756 1.
- NSW EPA, Waste Classification Guidelines - Part 1: Classification of waste, dated November 2014.
- NSW EPA (2020), Contaminated land guidelines: Consultants reporting on contaminated land.
- State Environmental Planning Policy No.55 – Remediation of Land, 1998.

# 2. Site Description

Information in the following sections is sourced and summarised from the PSI (SMEC, 2022).

## 2.1 Site location

A summary of Site information is presented below in Table 2-1. The Site location and layout are provided in Figure 1 and Figure 2, Appendix A.

Table 2-1 Summary of site information.

| | |
|---|---|
| **Address** | 64 Liverpool Street, Cowra |
| **Title Identifiers** | Lot 2 DP1169527 |
| **Area** | 14,400 m2 (approx.) |
| **Owner** | NSW Western Local Health District |
| **Zoning** | R1 General Residential Zone under Cowra Local Environmental Plan 2012 |
| **Current Land Use** | Hospital |
| **Proposed Land Use** | Hospital |
| **Surrounding Land use** | North: Residence and vacant land with Cowra Council Water Treatment Plant (WTP) beyond to the north.<br>South: Liverpool Street followed by residential and mixed-use commercial properties.<br>East: Ina Drive followed by residential.<br>West: Brisbane Street followed by residential. |

## 2.2 Site environmental setting

### 2.2.1 Topography and landforms

The Site is located below Bellevue Hill on land sloping down approximately from north-east to south-west. A detail survey was provided to SMEC by Health Infrastructure and a copy is included in Appendix C. The Site has an elevation range of approximately 322m to 338m Australian Height Datum (AHD). The higher part of the Site is in the north-east and the lower part of the Site is in the south-west.

### 2.2.2 Vegetation

A biodiversity assessment has not been undertaken. It is understood that the site is located within cleared developed areas. The following observations have been made of the site using available aerial images and during a site inspection undertaken as part of the PSI on 17 January 2022 (SMEC 2022):

- The Site is predominately covered by building footprints and hardstand pavements, with some areas of gravel pavement (north-east carpark) and grass (north-west and throughout) observed across the Site
- Trees and shrubs were observed bordering the west, east and south of the Site
- A garden comprising trees and shrubs is present within the central portion of the Site footprint
- A small portion (approximately 35 $m^2$) of the grassed area located in the north-west of the Site was bare, exposing an ash layer. It is noted that this area was used as a car park for hospital staff
- Generally, with the exception as described above, the vegetation did not appear to show signs of distress.

## 2.2.3 Geology

### 2.2.3.1 Regional geology

Reference to the Seamless Surface Geology (Minview.geoscience.nsw.gov.au) indicates that the Site is likely to be underlain by Cowra Granodiorite described as mafic garnet cordierite granodiorite, abundant enclaves. The mapping also indicates a dolerite dyke or vein running through the Site in an approximate east-west orientation. The regional geology is shown in Figure 3, Appendix A.

The Site is not mapped as being in an area known to have naturally occurring asbestos (Ref: geo.seed.nsw.gov.au).

### 2.2.3.2 PSI Site subsurface conditions

Intrusive investigations have been carried out at the Site as part of the PSI and Geotechnical Investigation. A summary of the general subsurface conditions is provided in Table 2-2 below.

Table 2-2 Generalised Subsurface Conditions

| Name | Depth Range (m) | Maximum Thickness (m) | Material Description |
|---|---|---|---|
| Pavement | 0-0.15 | 0.15 | Concrete / Asphalt |
| Topsoil Fill | 0-0.1 | 0.1 | Sandy CLAY / Silty CLAY |
| Fill | 0-1.5 | 1.5 | Sandy CAY / Clayey SAND / Gravelly SAND / ASH / Silty Sandy GRAVELs |
| FILL (Ash) | 0-2.1 (Variable) | 2.1 m: in north-western portion of site<br>0.15 m: underlying gravel carpark in north-eastern portion of site. | Ash: grey, loose, dry/damp, inclusions of plastic, glass, slag, some gravels |
| Residual | 0.05-6.5 | 5.5 | Sandy CLAY / Clayey SAND / Silty CLAY |
| Extremely Weathered Material | 3-8.7 | 4.7 | SAND / Clayey Sand |
| Diorite | >7.50 | - | Diorite |

No unusual staining or odours were noted during sampling at the test locations.

PID field screening of soil samples recorded negligible to low results ranging between 0.1ppm to 45.6ppm.

Groundwater was not observed in the test locations to the nominated excavation depths.

## 2.2.4 Hydrology and hydrogeology

Rainfall is expected to infiltrate into Site soils in exposed areas with runoff expected to flow offsite via onsite drainage and drainage pits.

Based on observation of the Site and surrounds using aerial imagery, it is expected that surface water would eventually discharge to the Lachlan River, located (at a minimum) approximately 680m south-west of the Site.

A search of registered bores was carried out on 11 January 2022 (minview.geoscience.nsw.gov.au) for the PSI. Nearby registered bores as shown in Figure 2-1 below with a summary of nearby bores provided in Table 2-3.

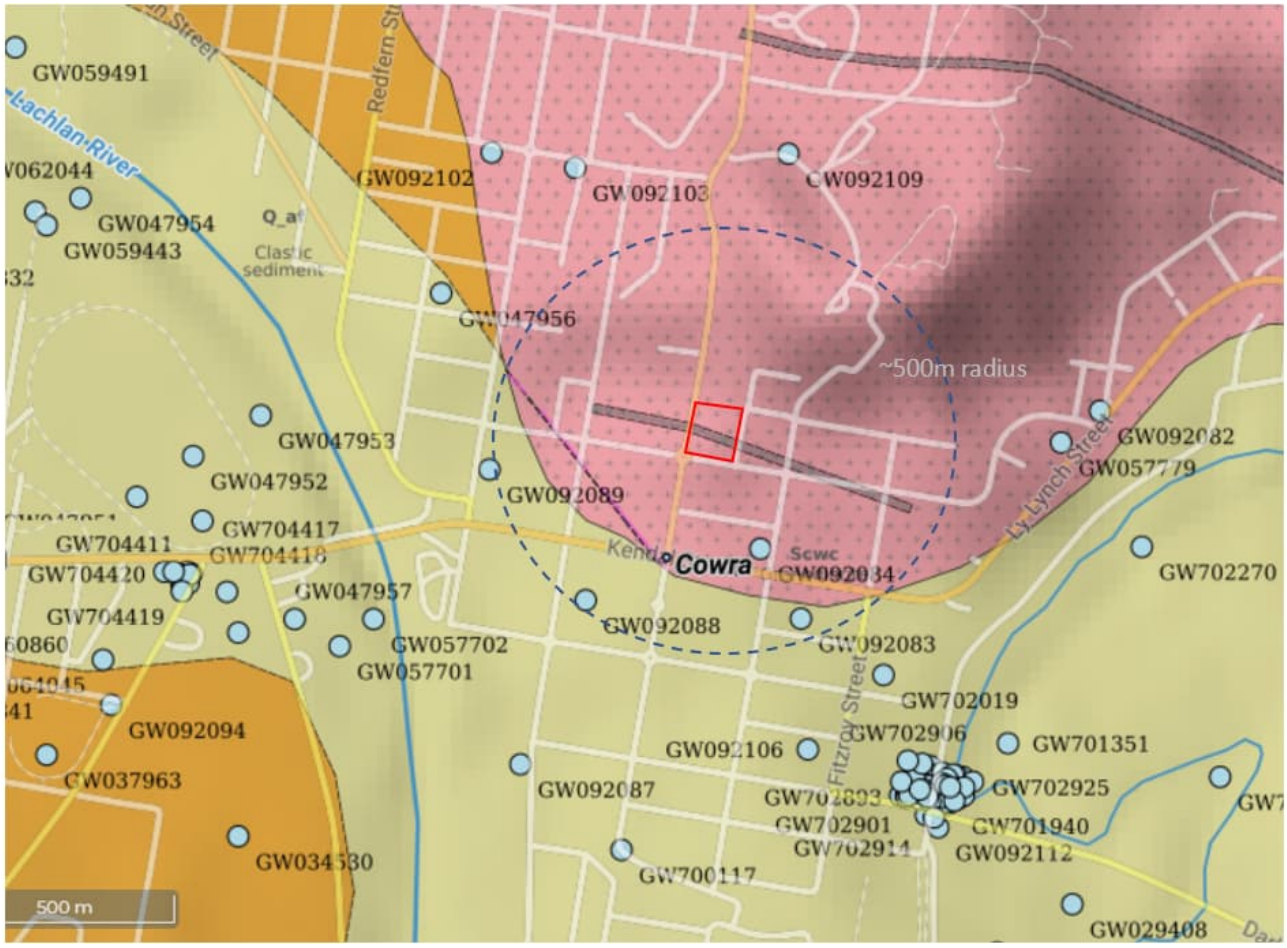



Figure 2-1 Registered bore locations

Two geotechnical boreholes from the Geotechnical Investigation were converted to wells following installation. Water was not observed following installation.

Table 2-3 Registered Bore Summary

| Bore ID | Purpose | Date Installed | Drilled Depth (m) | Standing Water Level (m) |
|---|---|---|---|---|
| GW092088 | Monitoring Bore | 19/02/1997 | 6.2 | - |
| GW092084 | Monitoring Bore | 19/02/1997 | 6.2 | 5.8 |
| GW092089 | Monitoring Bore | 19/02/1997 | 8.6 | 9.1 |
| GW092083 | Monitoring Bore | 19/02/1997 | 6.0 | - |
| GW092103 | Monitoring Bore | 21/02/1997 | 6.0 | - |
| GW092109 | Monitoring Bore | 25/02/1997 | 6.0 | - |
| GW092102 | Monitoring Bore | 20/02/1197 | 6.0 | - |

# 3. PSI Summary

SMEC carried out a PSI (SMEC, 2022) which included a review of site history, site walkover and some targeted soil sampling. A summary of key elements is provided below.

## 3.1 Summary of site history

A summary of the Site history obtained from the PSI is provided below:

- Pre 1885 the Site use is unknown but likely to have been vacant or rural
- Cowra hospital was established in 1885
- The Site layout as shown in 1940s plans and aerial images was different to current. There have been various modifications (additions/demolition) from the date of the hospital was constructed to present day
- The Site has had two known boiler houses with anecdotal evidence of medical waste also incinerated
- Anecdotal evidence and former plans suggest boiler ash waste was disposed in the north-west section of the site extending offsite and also placed in other parts of the Site
- Asbestos surveys in 2018 indicate most site buildings comprise asbestos containing materials (ACM), some in both bonded and friable forms including loose pipe lagging in sub floor areas of some buildings directly on soil
- A former swimming pool in the central part of the Site was filled sometime between 2004 and 2010
- Anecdotal evidence suggests some asbestos remediation work may have occurred in the southern part of the Site prior to construction of the main hospital building
- SafeWork NSW records indicate the presence of former petrol underground storage tank west of the boiler house
- The land usage surrounding the Site is predominately residential dwellings, with some commercial buildings. The Cowra Water Treatment Plant (WTP) is located directly north of the Site.

## 3.2 PSI conclusions and recommendations

Based on the Site history and observations, twelve potential areas of environmental concern (AEC) and associated potential contamination sources were identified in the PSI. These are as follows:

- AEC 1 – On-site disposal of ash by-product from historical boiler house in the north-western portion of the site
- AEC 2 – Fill of unknown origin utilised to backfill a historical swimming pool in the central portion of the Site, now supporting the memorial rose garden
- AEC 7 – Fill of unknown origin potentially used for site levelling purposes across the site footprint
- AEC 3 – Back-up generator and diesel fuel storage in an AST
- AEC4 – Historical fuel storage (gas AST) and vehicle fuelling area located in the south-western portion of the site, at the undercover car park
- AEC 5 – Waste from function hospital pathology, x-ray and renal departments
- AEC 6 – Area under main hospital building from asbestos
- AEC 8 – Use of former boiler house
- AEC 9 and AEC 10 – Hazardous building materials in historical structures
- AEC 11 – Historical and ongoing use of maintenance sheds

- AEC 12 – Potential historical US.T

AECs are shown in Figure 4, Appendix A.

The PSI with limited sampling entailed advancement of ten test pits and opportunistic sampling surface soils. Sample locations are shown in Figure 5, Appendix A. Fill was observed across the site, including sandy clays with anthropogenic materials and ash, likely associated with historical dumping of the boiler ash. Residual natural soils were encountered at all test pit locations except for TP10, which was discontinued due to refusal on rock fill. Residual natural soils where characterised as brown sandy clays.

Of the samples collected and selected for analysis, three exceedances of adopted site assessment criteria were identified at two sample locations, including:

- Health criteria (HIL C - recreational) – Benzo(a)pyrene Toxicity Equivalent Quotient (BaP TEQ) was exceeded at one location (TP08) within fill material beneath an unsealed car park; and
- Ecological criteria (ESL) for BaP was exceeded at two locations (TP08 and TP07) beneath an unsealed car park and adjacent workshop buildings
- Health criteria was exceeded at three locations where bonded ACM fragments were observed on the ground surface associated with ACM on nearby structures

A preliminary Conceptual Site Model (CSM) was developed and this is presented in Section 4 of this report.

The following conclusions and recommendations were made:

- The degree of sampling in the PSI was insufficient to assess all AECs and further investigation was required to adequately characterise the Site and to assess the significance of the exceedances recorded
- It is likely that some management of contaminated material may be required to make the Site suitable for the proposed hospital upgrades
- SMEC considered that based on the results of the PSI, the current data did not trigger a duty to report to EPA as per NSW EPA (2015) Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997
- Based on the results of the PSI it was considered likely that the Site can be made suitable for the proposed hospital development and as per the proposed development layout, subject to the following recommendations:
  - Further investigation to assess the potential for contamination in the identified AECs including assessment of the full range of contaminants in both soil and groundwater through a DSI. The testing in the PSI was preliminary only and was constrained by access. Some investigation can be carried out prior to demolition of structures and some will be required post demolition. Some data gaps that should be further assessed at the DSI stage include:
    - Potential location and presence of a former UST (AEC 12) which may include use of ground penetrating radar and ground truthing
    - Types of chemicals/waste that may be associated with discharges from the pathology and renal departments
    - Preparation of a Remedial Action Plan (RAP), if contamination is identified that warrants remediation from the DSI.

Other considerations relating to material management and potential soil disposal/reuse was included in the PSI.

# 4. Preliminary Conceptual Site Model

## 4.1 Overview

A critical element of any site assessment is the development of a conceptual site model (CSM). The CSM describes the environmental setting, identifies contaminant sources (potential areas of concern and associated contaminants), modes of contaminant movement (migration pathways), the person/ecosystem components/environmental values potentially affected by the contamination (potential receptors) and how exposure may occur (exposure routes).

The development of the CSM is an iterative process, whereby the initial CSM developed in the first stage of site assessment is refined as more detailed Site information becomes available. A preliminary CSM has been prepared which presents potential source(s), pathway(s) and ecological/human receptor(s) linkages. Potential source(s), pathway(s) and ecological/human receptor(s) are identified below.

The preliminary CSM is used to identify risks to human health, the environment and environmental values, as well as uncertainties or critical gaps in information that need to be addressed in subsequent stages.

For a risk to exist all three components (source, pathway, receptor) of the CSM must exist. The CSM is made up of contaminants of potential concern (CoPC) and receptors that could be exposed to the CoPC.

## 4.2 Potential contamination sources

AECs and CoPC were assessed based on Site history information and PSI findings. Identified AEC and CoPC are summarised in Table 4-1, below.

Table 4-1 Summary of identified AEC and CoPC.

| NO. | AEC | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC |
|---|---|---|---|---|
| AEC 1 | Area west of Site maintenance sheds, adjacent to Brisbane Street, and along the northern perimeter of the Site.<br>By-product (ash) from the old boiler house was disposed of in this area and areas upslope offsite. | High | Soil and Groundwater | TRH, PAH, metals, dioxins |
| AEC 2 | Area below rose garden, in the centre of the Site. This area was previously used as a swimming pool and has since been backfilled with construction waste. | Low | Soil | Heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn), PAHs, TRH, BTEX, PCB, OCP, OPP, Asbestos |
| AEC 3 | The Site backup generator building, along the western boundary of the Site, adjacent to Brisbane Street. Diesel fuel has stored here with potential for leaks/spills.<br>Also includes the adjacent substation. | Moderate | Soil<br>Groundwater<br>Vapour | TRH, BTEX, PAHs<br><br>TRH, PCB (substation) |

| NO. | AEC | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC |
|---|---|---|---|---|
| AEC 4 | The Site covered parking area, toward the south-west of Site, adjacent to Brisbane Street.<br>This area was historically used as a fuel fill-up area for site vehicles with potential for leaks/spills. | Moderate | Soil<br>Groundwater<br>Vapour | TRH, BTEX, PAHs |
| AEC 5 | Area below eastern wing of the main hospital building. Waste from pathology, x-ray and renal departments is disposed of through here. | Low/Moderate | Soil<br>Groundwater | pH, acetic acid, citric acid, aluminium, barium, sulphate, sodium sulphite, boric acid[1]<br>Biological + other |
| AEC 6 | Area below the main hospital building (southern part of the Site). Asbestos waste was identified in this area and the area was apparently previously partly remediated. | High | Soil | Asbestos |
| AEC 7 | The whole Site from potential fill of unknown origin and quality. | Low/Moderate | Soil<br>(Potentially groundwater) | TRH, BTEX, Heavy metals, PAHs, OCP, OPP, PCB, Asbestos |
| AEC 8 | Old boiler house in the central-western part of the Site from former incineration activities and use of asbestos | Moderate | Soil<br>(Potentially groundwater) | TRH, PAH, heavy metals, asbestos |
| AEC 9 | Areas near former and existing structures from weathering and/or ineffective demolition of hazardous building materials. Includes sub floor area of old nurses' quarters, staff accommodation and Life skills building. | High | Soil | Asbestos<br>Lead (from lead-based paints)<br>Zinc (from weathering of galvanised iron |
| AEC 10 | Central area of Site with known underground asbestos lagged pipes. Other potential service conduits with asbestos may be present in other areas | High | Soil | Asbestos |
| AEC 11 | Maintenance Sheds in the northern part of the Site (including former boiler) from possible historical use of fuels, oils, degreasers, paints and other chemicals | Moderate | Soil<br>(Potentially groundwater) | TRH, BTEX, heavy metals, PAH, OCP, OPP, VHC, VOC, asbestos |

[1] Based on Safety Data sheets and Worker Safety Instructions for photographic fixing concentrate (2 types) and developer solution (AGFA) (https://www.agfa.com/corporate/support/msds/) – actual products would need to be confirmed

| NO. | AEC | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC |
|---|---|---|---|---|
| AEC 12 | A historic and disused UST may remain in-situ at the undercover parking area, directly west of the boiler house. | High | Soil and groundwater | TRH, BTEX, PAHs, lead |

Table Notes:

- This is a qualitative assessment of likelihood of contamination being detected from the data reviewed, not financial or other risk associated if contamination were to be detected
- Abbreviations: TRH (total recoverable hydrocarbons), BTEX (benzene, toluene, ethylbenzene, xylene), Heavy Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc), PCB (polychlorinated biphenyls), ACM (asbestos containing material), PAH, (Polycyclic Aromatic Hydrocarbons), Organochlorine Pesticides (OCP), Organophosphorus Pesticides (OPP), VHC (volatile halogenated compounds), VOC (volatile organic compounds).

The locations of the AECs are presented in Figure 4, Appendix A.

## 4.3 Exposure pathways

The pathways of exposure consist of:

- A transport mechanism; and
- A route of exposure.

Based on Site history information, there is potential for the following contamination pathways to exist at the Site:

- Disturbance of potential soil contamination and exposure by ingestion, dermal contact or inhalation
- Air transport of particulates (dust) and exposure by inhalation (if soil is excavated).
- Migration of contaminated run-off and exposure to ecological receptors (aquatic ecosystems) (most likely during construction work)
- Surface water runoff
- Leaching from soils into on-site groundwater followed by off-site migration (vertical)
- Contaminated groundwater migration for the Site to off-site surface water receptor (lateral)
- Vapour intrusion and inhalation.

## 4.4 Potential receptors

### 4.4.1 Human receptors

Based on the information available, potential human receptors would include:

- Site workers, hospital patients, and visitors
- Site workers during future construction works or maintenance activities; and
- Downgradient offsite commercial/residential occupants and maintenance workers (e.g. accessing utilities).

### 4.4.2 Ecological receptors

Ecological receptors at the hospital Site will be limited and may be only relevant in proposed landscape areas. Ecological receptors should be therefore considered for these areas.

Where potential for leaching of contaminated soils into groundwater, or potential for mobilisation and migration of contaminants via surface water, aquatic receptors in the nearest surface water receptor should be considered.

Drainage lines on the Site are currently unidentified. It is noted that the closest aquatic receptor is expected to be the Lachlan River, approximately 680 metres south-west of the Site.

## 4.5 Potential source pathway receptor linkages

Potential source-pathway-receptor linkages are where contaminated media (e.g. soil, surface water and/or groundwater) (if present) has the potential to adversely impact on human health or ecological values for the Site via complete exposure pathways. For a risk to exist all three components (source, pathway, receptor) of the CSM must exist.

The potential receptors for concern for which there are potential contamination pathways are summarised in Table 4-2.

Table 4-2 Potential Contamination Pathways and Receptors.

| Source | Transport/Exposure Pathway(s) | Receptor(s) |
|---|---|---|
| AEC 1-5, 7-9 and 11-12 | • Direct dermal contact with contaminants or contaminated media (soil/groundwater).<br>• Inhalation of soil dust, fibres and/or soil vapours.<br>• Ingestion of contaminated soil, groundwater or surface water.<br>• Migration of contaminated runoff (soil or water).<br>• Plant uptake. | • Site workers, hospital patients, and visitors.<br>• Site workers during future construction works or maintenance activities.<br>• Downgradient offsite commercial/residential occupants and offsite maintenance workers (e.g. accessing utilities).<br>• Aquatic ecosystems in surface water receptors.<br>• Plants (onsite) |
| AEC 6 and 10 | • Inhalation of soil dust, fibres | • Site workers, hospital patients, and visitors.<br>• Site workers during future construction works or maintenance activities.<br>• Downgradient offsite commercial/residential occupants. |

Source-pathway-receptor linkages are potentially complete if contamination exists and is not managed.

The development is likely to involve excavation of soil to facilitate achieving Site levels with limited opportunity for soil reuse. Soils that are removed will not present an ongoing risk to Site users but need to be assessed for risks posed during construction and for waste management.

# 5. Assessment Criteria

## 5.1 Soil assessment criteria

### 5.1.1 General

Evaluation against assessment criteria is used to identify levels of contamination that may pose ecological or health risks to potential receptors or future users of the Site.

The National Environment Protection (Assessment of Site Contamination) Measure (NEPM) was first published in 1999 and updated in 2013 by the National Environment Protection Council (NEPC) and provides national standards for a variety of environmental issues, including the assessment of Site contamination in Schedule B (1) Guideline on Investigation Levels for Soil and Groundwater.

The NEPM requires consideration be given to Health-based Investigation Levels (HIL), Health-based Screening Levels (HSL), Ecological Investigation Levels (EIL), Ecological Screening Levels (ESL), Management Limits, asbestos criteria and aesthetic issues. The following outlines the rationale for the selection of the appropriate levels for the DSI.

### 5.1.2 Health Investigation Levels (HILs) and Health Screening Levels (HSLs)

Health investigation levels (HIL) are scientifically based, generic assessment criteria designed to be used in the first stage (Tier 1 or 'screening') of an assessment of potential risks to human health from chronic exposure to contaminants. They are intentionally conservative and are based on a reasonable worst-case scenario for four generic land use settings outlined below:

- HIL A – residential with garden/accessible soil (home grown produce <10% fruit and vegetable intake, (no poultry), also includes children's day care centres, preschools and primary schools
- HIL B – residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats.
- HIL C – public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate.
- HIL D – commercial/industrial such as shops, offices, factories and industrial sites.

Adopted human health site assessment criteria were sourced from NEPM (2013) Schedule B1. Given human exposure is likely to be limited to hospital staff, patients and visitors, and construction or maintenance workers, both HIL C' public open space' and HIL D 'commercial/industrial' criteria have been adopted as initial assessment criteria.

Health Screening Levels (HSLs) for petroleum hydrocarbons are available from ASC NEPM (2013) and CRC Care (Friebel E and Nadebaum P, 2010). These references provide HSLs for vapour intrusion for soil at various depth ranges. CRC Care also provides HSLs for direct contact and for vapour intrusion for intrusive maintenance worker (shallow trench). A conservative approach has been adopted for this assessment with 'sand' and coarse-grained soils applied with relevant criteria, otherwise the specific soil type was used.

### 5.1.3 Ecological Screening and Investigation Levels (EILs/ESLs)

EILs and ESLs are relevant where ecological receptors are likely to be present and exposure pathways are complete. The following ecological soil assessment criteria has been used for the soil assessment:

- NEPM (1999) Table 1B (1) to 1B (5) Ecological investigation levels (EILs) – Urban residential and public open space – Generic EILS
- NEPM (1999) Table 1B (1) to 1B (5) Ecological investigation levels (EILs) – Urban residential and public open space – Site-specific EILs
- NEPM (1999) Table 1B (6) Ecological screening levels (ESLs) – Urban residential and public open space.

For assessment against EILs, soil analytical results are compared with the NEPM (2013) Generic EILs to assess potential risks to current and future ecological receptors at the site for selected analytes (Arsenic, DDT, lead, and naphthalene). For other analytes (including copper, chromium, nickel and zinc) the EIL values rely on site-specific inputs and calculations. These were calculated using the NEPM (2013) ASC Toolbox as part of the PSI (SMEC 2022).

As part of the PSI, Site specific EIL input values were calculated by incorporating the average values of various soil physiochemical parameters (pH, CEC and TOC) from two selected soil samples that were considered to be indicative of the general Site soil conditions.

Table 5-1 Physiochemical parameters to calculate Site-Specific EILs.

| Sample name | $pH_{CaCl_2}$ | CATION EXCHANGE CAPACITY (CEC) (meq/100g) | Total Organic CARBON (TOC) (%) |
|---|---|---|---|
| TP05_0.2-0.3 | 7.1 | 33.7 | 3.9 |
| TP07_0-0.1 | 7.4 | 3.8 | 1.0 |
| Average | *7.3* | *18.8* | *2.5* |

Table Notes: Samples collected and analysed as part of PSI Site sampling event (SMEC 2022).

EILs apply principally to contaminants within the top 2m of soil at the finished surface/ground level, which corresponds to the root zone and habitation zone of many species. In general, the toxicity of soil contaminants (both organic and inorganic) will reduce or age over time to a lower and more stable level by binding to various soil components and decreasing their biological availability. For the purposes of site specific EIL derivation, a contaminant incorporated in soil for at least 2 years is considered to be 'aged', based on the preliminary conceptual site model, it is considered that the use of site specific EIL criteria applying to 'aged' contamination is most appropriate for this Site.

Site specific EIL criteria were derived by inputting the average values from Table 5-1 into the NEPM (2013) ASC toolbox. Ambient background concentrations (ABC) were obtained from background local sample collected during DSI works. The calculated criteria are presented in Table 5-2, below.

Table 5-2 Calculated Site specific EILs.

| | Copper | Nickel | Zinc |
|---|---|---|---|
| | mg/kg | mg/kg | mg/kg |
| ACL | 130 | 110 | 290 |
| ABC | 9.8 | 9.5 | 34 |
| Criteria | 139.8 | 119.5 | 324 |

### 5.1.4 Management Limits

Management Limits have been considered as investigation levels. The purpose of these is to avoid or minimise potential effects of petroleum hydrocarbons. The ASC NEPM identifies these effects as:

- Formation of observable light non-aqueous phase liquids (LNAPL)
- Fire and explosive hazards
- Effects on buried infrastructure.

The following management limit criteria have been adopted for this assessment:

- Table 1B (7) Management Limits (Residential, parkland and public open space) and (Commercial and industrial).

### 5.1.5 Asbestos criteria

The adopted Site screening level in accordance with NEPM (2013) includes no visible asbestos for surface soil. A conservative criterion of no asbestos detected has been adopted for initial screening purposes.

The adopted assessment criteria for this Site is NEPM (1999) HIL C' public open space' and HIL D 'commercial/industrial' for areas where gravimetric sampling can be carried out:

- Bonded ACM: HIL C 0.02% w/w – HIL D 0.05% w/w
- Asbestos fines and friable asbestos: 0.001%w/w -
- No asbestos at the ground surface.

### 5.1.6 Aesthetic criteria

Aesthetic criteria are generally not considered relevant for a commercial/industrial land use. Since some areas of the hospital grounds could be used for open space SMEC have adopted aesthetic criteria as follows:

- Soils shall not be discoloured or affected by odours or inclusions, such as demolition rubble, litter, or domestic waste, to an extent that this would be considered a hazard or nuisance.

### 5.1.7 Resource recovery (ENM) criteria

At the request of Health Infrastructure results will also be compared to criteria in The Excavated Natural Material (ENM) order 2014 (Resource Recovery Order under Part 9, Clause 93 of the Protection of the Environment Operations (Waste) Regulation 2014).

### 5.1.8 Waste classification criteria

Results have been compared to waste classification criteria in NSW EPA (2014) Waste Classification Guidelines, Part 1: Classifying Waste to assess the potential waste classification for future construction work in the event some soils require offsite disposal.

### 5.1.9 Dioxin criteria

For dioxin compounds the following criteria were adopted:

- Human Health: CCME (2001 and 2004) for soil of 4pg/g TEF corrected. These criteria are considered conservative compared to US EPA Screening Levels of 46.6 pg/g and Removal Management Levels of 4,4660 pg/g.
- Waste disposal: ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT 1985 , CHEMICAL CONTROL ORDER IN RELATION TO DIOXIN-CONTAMINATED WASTE MATERIALS [Published in Government Gazette No. 44 of 14 March, 1986, p 1182] of 10,000 pg/g (TEF corrected).

## 5.2 Groundwater

### 5.2.1 General

NSW EPA (2007) Guidelines for the Assessment and Management of Groundwater Contamination indicate that legislation and published policies in NSW articulate key principles for assessing and managing groundwater contamination. These include the principles of ecologically sustainable development, which require the effective integration of economic, social and environmental considerations in decision-making.

In the case of the closest water receptor to Site, the Lachlan River, is considered an upland river at Cowra. The ANZECC 2000 Guidelines define upland streams as those above 150m altitude, at Cowra the Lachlan River lies at approximately 280 to 290m AHD. The Lachlan River water quality objectives (WQOs) for upland rivers will be adopted for this assessment.

Based on the conceptual site model, values requiring protection with respect to groundwater are considered to be drinking water, human health (vapour intrusion and direct contact) and downslope ecological receptors (freshwater – assumed to be the Lachlan River).

The adopted groundwater assessment criteria for this investigation are presented in Table 5-3.

## 5.2.2 Human health

### 5.2.2.1 Drinking water

The Site is located in a low to medium densely populated area where reticulated potable water is available. The Site sits within the Lachlan region, with the Lachlan River providing water supply to regional centres (including Cowra). Smaller townships in the south of the Lachlan region rely on groundwater from aquifers (Murray-Darling Basin Authority, 2022). Whilst use of groundwater for drinking in Cowra is unlikely, it cannot be discounted as some bores in the area are registered for water supply use.

The potential for the site to have caused groundwater impacts is assessed to be low. Based on the above, assessment against drinking water criteria (NHMRC, 2011) has been used as an initial screening criteria.

### 5.2.2.2 Vapour intrusion

Health Screening Levels (HSLs) for petroleum hydrocarbons are available from ASC NEPM (2013) and CRC Care, Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater (Friebel E and Nadebaum P, 2010). These references provide HSLs for groundwater at various depth ranges but assume groundwater to be greater than 2m below ground level. We have adopted criteria for HSL C 'recreational/open space' and HSL D 'commercial/industrial', considering that human exposure is likely to be limited to hospital staff, patients and visitors, and construction or maintenance workers.

For contaminants such as volatile halogenated compounds where published Tier 1 screening levels are not available for Australian conditions, the laboratory limit of reporting have been used as an initial screening criteria.

## 5.2.3 Ecological

Based on observation of the Site and surrounds using aerial imagery, it is expected that surface water would eventually discharge to the Lachlan River, located (at a minimum) approximately 680m south-west of the Site.

The Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, August 2018) provide guidelines for protection of aquatic ecosystems and default guideline values were therefore adopted for the site as preliminary (i.e. Tier 1) assessment criteria, that is, levels above which a further assessment is required. We note that the guidelines apply at the discharge point and that background concentrations can also be considered.

Default Guideline Values for toxicants applying to 'fresh water' aquatic ecosystems were considered most applicable. The 95% level of species protection applying to slightly-moderately disturbed systems is considered applicable for initial screening. Where toxicants are noted to be potentially bio-accumulative (i.e. cadmium, mercury, nickel), the trigger value for the protection of 99% of species was adopted.

ANZG (2018) have not published guidelines for petroleum hydrocarbons or VHC. For this assessment, the laboratory limits of reporting will be adopted as initial screening criteria.

Table 5-3 Water Assessment Criteria

| Analyte | Health (µg/l) | Ecological (µg/l) |
|---|---|---|
| pH | 6.5-8.5 [8] | 6.5-8.0 [4] |
| Salinity (electrical conductivity) | Taste Threshold | 30–350 uS/cm [4] |
| Dissolved Oxygen | >85% [8] | 90-110% [4] |
| Metals | | |
| Arsenic | 10 [7] | 2.3 [1] |
| Cadmium | 2 [7] | 0.06 [3] |
| Chromium total | 50 [7] | 1.0 [2] |
| Copper | 2000 [7] | 1.4 [2] |
| Lead | 10 [7] | 3.4 [2] |

| Analyte | Health (µg/l) | Ecological (µg/l) |
|---|---|---|
| Zinc | 3 [8] | 8.0 [2] |
| Mercury | 1 [7] | 0.06 [3] |
| Nickel | 20 [7] | 11 [2] |
| Inorganics | | |
| Ammonia | - | 900 [2] |
| Nitrate | 50,000 [7] | |
| Total Petroleum Hydrocarbons | | |
| F1 ($C_6$-$C_{10}$ minus BTEX) | 6,000 [5] | - |
| F2 (>$C_{10}$-$C_{16}$ minus naphthalene) | NL [5] | - |
| $C_6$-$C_{40}$ | - | <LOR [6] |
| BTEX | | |
| Benzene | 1 [7] | 950 [2] |
| Toluene | 800 [7] | 180 [2] |
| Ethylbenzene | 300 [7] | 80 [2] |
| Xylene | 600 [7] | 75 [2] |
| Polycyclic Aromatic Hydrocarbons | | |
| Naphthalene | NL [5] | 16 [2] |
| Anthracene | - | 0.01 [3] |
| Benzo(a)pyrene | - | 0.1 [3] |
| Fluoranthene | - | 1 [3] |
| Phenanthrene | - | 0.6 [3] |

Table Notes:

1. Conservatively based on As (III) low reliability trigger value.
2. ANZG 95% species protection
3. ANZG 99% species protection (to account for bioaccumulation)
4. WQO for Lachlan River
5. NEPM Health criteria - Vapour intrusion (HIL D, 2-<4m, sand conservatively assumed)
6. Conservatively used as investigation level in the absence of ANZG criteria
7. NHMRC 2011 drinking water guidelines
8. NHMRC 2011 drinking water guidelines (aesthetic criteria)

NL – non limiting

LOR – Limit of reporting

# 6. Data Quality Objectives

The data quality objectives (DQO) in Table 6-1 were developed for this project and are based on the requirements described in ASC NEPM (1999). Data Quality Indicators (DQIs) are included in Appendix D.

Table 6-1 Data Quality Objectives

| Step | Tasks |
|---|---|
| Step 1<br>State the problem | The primary objectives are outlined in Section 1.3.<br>The main considerations are:<br>• What sample layout should be used to achieve the above objectives?<br>• How many samples should be collected?<br>• What analytes should be tested?<br>• What media should be tested?<br>A preliminary conceptual site model is presented within Section 4 based on current available desktop information. The main problem is to determine what sample layout should be used to achieve the above objectives.<br>The key assessment team consisted of SMEC staff Pauline Voukidis (Environmental Engineer), Steven Drysdale (Senior Associate Environmental Scientist) and Manuel Fernandez (Principal Engineer – Environmental – CEnvP Site Contamination Specialist). |
| Step 2<br>Identify the decisions | The decisions to be made on the basis of the sampling were:<br>• If the Site is not suitable for the proposed development, determine whether sufficient information is available to devise a risk-based remediation strategy;<br>• If sufficient information is available to devise a risk-based remediation strategy, determine the likely extent of remediation required to facilitate development; and<br>• If sufficient information is not available to devise a risk-based remediation strategy, specify the data gaps and the requirements for addressing the data gaps. |
| Step 3<br>Identify information inputs | The inputs required to make the decisions listed in Step 2 were as follows:<br>• Information from the PSI<br>• Site observations made during the intrusive investigations, including observations of fill/natural soil depth, and contamination indicators (suspected asbestos containing material [ACM], unusual odours, staining or buried waste materials)<br>• Field soil headspace screening for volatile organic compounds (VOCs) using a photo-ionisation detector during fieldwork<br>• Soil and groundwater concentrations of contaminants of potential concern<br>• Applicable NSW EPA endorsed guidelines (refer to Section 5). |
| Step 4<br>Define the study boundaries | Laterally, the study boundary is defined by the Site boundary (i.e. the investigation boundary), as shown on Figure 2, Appendix A.<br>Vertically, the study boundary for this detailed investigation will be up to 10m below ground level (or practical refusal, whichever occurs first). |
| Step 5<br>Develop the analytical approach (decision rule) | The decision rule for soils was as follows:<br>• A data validation assessment will be carried out for all data collected with respect to quality assurance and quality control (QA/QC) and conclude if the data collected is useable, partially useable with some limitations, or unusable in forming conclusions to the assessment.<br>• If there is no field evidence of contamination and contaminant concentrations for each sample are below the assessment criteria, then no further assessment will be required with respect to that contaminant or area<br>• The 95% Upper Confidence Limit (UCL) of the arithmetic mean contaminant concentration should be below the assessment criteria and the results must also meet the following:<br>– No single value is to exceed 250% of the human health criteria<br>– The standard deviation must be less than 50% of the human health criteria |

| Step | Tasks |
|---|---|
| | • The updated CSM will be used to make an assessment of the data along with consulting judgement and experience. |
| Step 6<br>Specify performance or acceptance criteria | We have assumed the following to be true in the absence of contrary evidence (i.e. the null hypothesis):<br>• Contamination at the Site currently poses a potential risk to human and/or environmental receptors.<br>The possibility exists of making the following decision errors based on the data obtained during this investigation:<br>• Type 1 error – Deciding the above null hypothesis is false, when it is true<br>• Type 2 error – Deciding the above null hypothesis is true, when it is false.<br>The consequence of making a Type 1 error is more detrimental as it can result in adverse consequences or may include material impact to human and environmental health. The consequence of making a Type 2 error may result in 'over-conservatism' and unnecessary expense of conceptual remediation options.<br>The potential for decision errors will be minimised by completing a robust QA/QC program and by completing an investigation that has an appropriate sampling and analytical density for the purposes of the investigation. |
| Step 7<br>Optimise the design for obtaining data | Sampling was carried out in accordance with the methodology in Section 7, and optimised the design for obtaining data using the following measures:<br>• Field investigations were carried out by trained environmental scientist/engineer, under direction of senior staff experienced contaminated land assessment.<br>• Site observations of visual and olfactory evidence of contamination were made at sampling locations.<br>• Sampling was carried out using a combination of judgemental and systematic sampling depending on the identified AEC and CoPC being targeted.<br>It is noted that due to the Site being paved, and holding buildings that remain in use, some areas were inaccessible, and sampling areas are restricted. |

This process has been applied throughout the work carried out for this DSI.

# 7. Sampling Methodology

## 7.1 General

The Site has an approximate area of 1.44 ha and reference to the NSW EPA (1995) Sampling Design Guidelines (Table A) indicates a minimum of 24 sampling locations are required to assess a site of this size, subject to the site history and number/type of AECs. Due to the number and type of AECs, the investigation included a combination of judgemental and systematic sampling locations to target specific AECs.

In total, 42 sample locations were proposed to further assess accessible parts of the Site using a combination of mechanical excavation methods, hand tools and surface samples. These locations have been used to supplement previous data collected from the PSI. A summary is provided below:

- 17 x mechanically excavated test pits advanced using an excavator (generally to the base of fill varying between about 1m to 2.5m below ground level (bgl)). Test pits were generally excavated to the base of fill until natural soil is observed or deeper if there was evidence of deeper contamination.
- 12 x hand auger locations in unpaved areas where access is poor with mechanical equipment (generally to a maximum depth of 0.5m bgl). One hand auger was used to check if the tank can be proven.
- 11 x shallow surface samples (e.g. direct by hand or using a hand trowel) (targeting two depths: the surface 0-0.05m, and 0.1-0.2m bgl).
- 5 x mechanically excavated boreholes (varying between about 2m and 4m bgl depending on the source of contamination being targeted).
- Three of the boreholes above were extended to convert into groundwater monitoring wells using a drill rig up to a maximum depth of 10m (or practical refusal on weathered rock).

Table 7-1 below provides an outline of the methodology for sampling locations. Sampling locations are presented in Figure 5, Appendix A.

Table 7-1: Sampling Methodology

| AEC | | Methodology |
|---|---|---|
| AEC 1 | Boiler ash disposal | Four additional locations targeted this area (3 test pits – [IDs 11, 13 and 20]) and one borehole [ID 12] which was extended and converted into a groundwater monitoring well. |
| AEC 2 | Infilled pool | This area is relatively small (~150m$^2$). Two tests pits [ID 24 and 25] were undertaken in this area to the base of fill |
| AEC 3 | Back-up generator and substation | These are operational infrastructure. A surface sample previously targeted the area near the back-up generator. One surface sample [ID 55] was undertaken in this area. |
| AEC 4 | Refuelling area | One borehole was undertaken in this area [ID 33]. This area was thought to be associated with the nearby AEC12 and data from AEC 12 has also bene used to assess this broader area. |
| AEC 5 | Medical waste discharge area | This area is below the main hospital with poor access and may contain friable asbestos. No sampling was proposed in the DSI and this area will need to be assessed during or post demolition. |
| AEC 6 | Previous asbestos remediation area | This area is below the main hospital with poor access and may contain friable asbestos. No sampling was proposed in the DSI and this area will need to be assessed during or post demolition. |
| AEC 7 | Fill | All sample locations have been used to assess the extent and quality of fill across the Site. |
| AEC 8 | Boiler house | Access is limited at the boiler house. One hand auger borehole [ID 40] was undertaken in the external area in a zone that was able to be penetrated. |

| AEC | | Methodology |
|---|---|---|
| AEC 9 | Hazardous building materials | Thirty three locations across the Site targeted areas near former and existing building structures that may have contained hazardous building materials to check for residual soil impacts. |
| AEC 10 | Underground lagged asbestos pipes | These pipes were not proposed to be targeted in this assessment and can be managed at demolition stage. |
| AEC 11 | Maintenance sheds | Seven locations targeted areas external to the maintenance sheds. One test pit [ID 14], two hand augers [ID 34 and 35], three surface sample [ID45-47] and one borehole {ID 29]. The borehole was drilled through existing pavement, located near the former boiler house/incinerator. The internal areas are operational or used for storage and access was limited. |
| AEC 12 | Potential Historical UST | Ground Penetrating Radar (GPR) survey by a utility locator was used to assess if the underground storage tank (UST) could be located. One hand excavated borehole [ID 31] was undertaken in this are to check if the tank could be proven. Two additional boreholes [ID 30 and 32] were drilled to check for contamination from the UST to at least 4m, with one borehole extended to a maximum of 10m and converted into a groundwater monitoring well. |

In relation to items that are not AEC specific, soil samples from twenty-four (24) locations, approximately on a 25m grid were used to collect data to assist with assessment of soils (mainly fill soils) against the ENM Order. Two samples of older asphalt from paved roads were also collected to assess if the road could be made of coal tar material and be used for contamination and waste disposal assessment purposes.

## 7.2 Excavation and soil sampling procedure

The Site investigation included the following:

- DBYD plans were reviewed prior to breaking ground at each proposed borehole location.
- An accredited service locator carried out services clearance at each proposed investigation location.
- Fieldwork was attended on a full-time basis by a trained and experienced environmental scientist or engineer. All fieldwork was carried out in accordance with the DSI Sampling, Analysis and Quality Plan (SAQP), a task specific Safe Working Method Statement (SWMS) and site-specific environmental control measures adopted for the Site.
- Ground Penetrating Radar (GPR) survey by a utility locator to assess if there were anomalies to suggest the presence and potential location of an underground storage tank (UST) within the zone depicted in Figure 5, Appendix A (AEC 12).
- Soil sampling using a combination of techniques as described earlier.
- The upper 1m of the boreholes was advanced with non-destructive drilling techniques. Soil samples were collected within this zone with the aid of a hand auger. Samples beyond 1m were collected with a split tube sampler or push tube (where ground conditions permitted) or from the stem of the auger.
- Soil samples from test pits and boreholes were generally collected at the surface (0-0.1m), 0.3m and at approximately 1m intervals thereafter based on the depth of the investigation location. Depths were adjusted to target specific layers (such as changes in stratigraphy, suspect layer/material or zones with visual/olfactory evidence of contamination).
- Prior to sample collection, any personnel that handled decontaminated soil sampling equipment that directly contacts the environmental media to be sampled washed their hands with soap and rinse thoroughly with tap water before donning a clean, new pair of disposable nitrile gloves. A new pair of nitrile gloves was worn for each different sampling location.
- For test pits the excavator stripped a section of turf and placed this to the side of proposed test pit (in grassed areas). Samples from test pits were collected from spoil which did not come into direct contact with the excavator bucket.

- As far as practicable, excavated spoil was backfilled in reverse order (e.g. deepest material backfilled first) with test pits 'tamped' with the excavator bucket to reduce the likelihood of future settlement. For surface sampling locations, surface samples were collected with a new pair of nitrile gloves directly from the ground surface. A decontaminated stainless-steel trowel/shovel was used to facilitate sampling from the second depth.
- Soil samples were collected directly from decontaminated sampling equipment (hand augers, trowels, push tubes, SPT split tubes). Any reusable equipment was decontaminated prior to use and this is described in Section 7.5.2.
- Each soil sample was collected within clean laboratory supplied containers. Details on preservation and holding times are shown in Table 7-2.
- Soil samples from areas where volatile contamination is noted as a potential CoPC were collected in duplicate into a separate zip lock bag and field-screened using a photoionisation detector (PID). The PID was calibrated in accordance with manufacturer instructions and included regular calibration checks as required. Calibration certificates/records were provided in the DSI report.
- Soils were logged using the Unified Soil Classification System (USCS) in general accordance with SMEC Standard Operating Procedures (SOPs).
- A visual assessment was made of encountered soil material for the potential presence of contamination indicators such as staining or odours.
- Three of the boreholes were advanced to 10m to allow groundwater monitoring wells to be installed at these locations (well installation is described further in Section 7.3.1).

### 7.2.1 Asbestos gravimetric method

Gravimetric sampling for asbestos was carried out at test pit locations within AECs where asbestos is a CoPC. Soil samples were collected as per Section 4.10 of ASC NEPM 1999 Schedule B2 of WA DoH (2009) guidelines hereafter referred to as the 'gravimetric method' to supplement other observations made at the Site.

The following procedure was adopted:

- A 10-litre soil sample was collected from each distinct fill layer (or per 1m depth). Suspect asbestos material or construction debris was targeted if present.
- The 10-litre sample was then weighed in the field (recorded as field 'wet weight') using commercially available scales, the field weight was recorded clearly on field notes.
- The sample was then be sieved through a 7mm sieve. Any visible ACM fragments (>7mm) (retained in the sieve) were collected, placed in a zip locked bag, photographed and the condition of each fragment was recorded. Careful visual observations of the sieved soil material on the plastic was made. Where the soil type is not amenable to sieving (e.g. clayey soil), this material was spread out onto a contrasting piece of plastic to check for and pick out ACM fragments >7mmx7mm.
- Any suspected ACM fragments were then collected into a zip lock bag and observations recorded of the ACM condition:
  - *Good condition* = suspected ACM in sound condition where the asbestos is bound in a matrix (although possibly broken or fragmented) and would be unlikely to pass through a 7mm x 7mm sieve.
  - *Poor condition* = ACM in a degraded condition such that it can be broken or crumbled by hand pressure.
- The samples were submitted to the laboratory for weighing and asbestos presence/absence testing (in some instances it was acceptable to analyse only representative fragments rather than every fragment).
- The weight of asbestos within the ACM was estimated and reported by the laboratory in general accordance with Australian Standard AS4964.

- At each soil sampling location, a 500ml sub sample of soil was collected from the spoil which was considered to be representative of the sieved material (not from the sieved material).
- Where suspected ACM was retained in the sieve an additional 500ml sample was collected from representative spoil and submitted to the laboratory for moisture content analysis. This was used to estimate the dry weight of soil within the 10L sample.
- The concentration of asbestos in soil for bonded ACM was calculated using the principals of the formula in the WA DoH (2009) Guidelines as per the following equation:

- $$Asbestos\ in\ soil\ (\%\ w/w) = \frac{Asbestos\ content\ (\%) \times Bonded\ ACM\ weight(g)}{Soil\ Volume\ (L)\ x\ Soil\ Dry\ Density\ (g/L)}$$

- The asbestos content of ACM was assumed to be 15%, unless the material was of a different nature, in which case asbestos content estimation was requested from the laboratory on selected samples.
- The soil weight in the 10L sample which forms the denominator in the above equation (soil volume x soil dry density) was calculated from the field wet weight and the soil moisture content.

### 7.2.2 Soil sample containers and preservation requirements

Soil sample container and preservation requirements are described in Table 7-2

Table 7-2 Soil Sampling Requirements

| Parameter | Container | Sample Volume | Preservation | Holding Time |
|---|---|---|---|---|
| Total Recoverable Hydrocarbons (TRH $C_6$-$C_9$) and BTEX | Glass jar with Teflon lined lid | 150mL | Cool to <6°C | 14 days |
| Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) | | | | 180 days |
| PAH | | | | 14 days |
| OCP, OPP | | | | 14 days |
| PCB | | | | 14 days |
| VHC, VOC | | | | 14 days |
| ENM (pH, EC) | | | | 7 days |
| ENM (foreign materials) | Bag | 6kg | Nil | 180 days |
| Asbestos (%w/w) | Zip-lock bag[1] | 500mL | Nil | Indefinite |

Notes:

1. Refer to Section 7.2.1 for specific requirements for gravimetric sampling

# 7.3 Groundwater

## 7.3.1 Groundwater monitoring well installation

Three groundwater monitoring wells were installed at the Site. The monitoring wells were installed using the following method:

- The 3 new wells were installed at the locations presented on Figure 5, Appendix A
- All wells were completed in general accordance with the relevant sections of NUDLC (2020) The Minimum Construction Requirements for Water Bores in Australia 3rd Ed
- Monitoring wells were installed using a 125mm solid flight rotary auger to a depth 2m past the observed standing water table or a maximum depth of 10m bgl. Initially the existing wells were gauged to assess the likely standing water level.
- The wells were completed as follows:
  - 50mm machine slotted class 18 u-PVC screen was installed from the base of the well to around 1m above the top of the inferred standing water table. Unslotted class 18 u-PVC casing was then used to just below ground level
  - The base was fitted with an end cap
  - A filter pack comprising clean sand was backfilled around the annulus of the borehole to about 0.3m above the top of the screen
  - A bentonite seal of about 1m was then installed above the filter media
  - Cement/bentonite grout was used to fill the well annulus to about 1m below ground surface, followed by another bentonite seal above which concrete was used and a steel trafficable cover used at the ground surface
  - The top of each well was capped with a torque plug
  - A mark was put at the top of each well casing from which survey and water levels were measured.

Figure 7-1 shows typical well completion details.

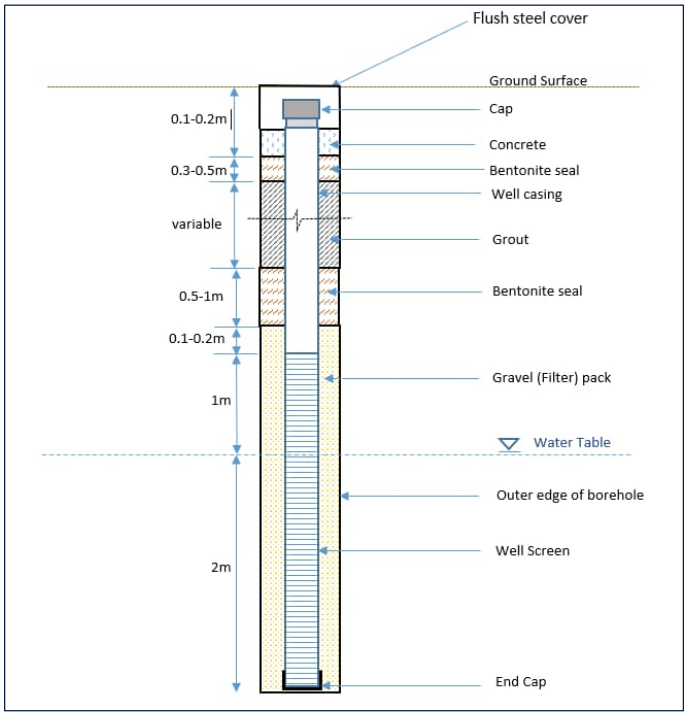



Figure 7-1 Typical well completion details

- Each well was developed following installation using a dedicated bailer.
- A surging action was used to promote groundwater movement followed by removal of a minimum of 3 to 5 well volumes from each until water clarity improves well or until dry, whichever occurred first.
- All re-useable sampling equipment e.g. hand augers was subjected to de-contamination as described within Section 7.5.2.

### 7.3.2 Groundwater sampling

Groundwater monitoring comprised the following method:

- A water level interface probe was used to gauge the depth of standing water level and total well depth.
- The interface probe was also used to assess presence of measurable Light/Dense Non-Aqueous Phase Liquid (LNAPL/DNAPL).
- Groundwater samples were collected using bailer sampling techniques in general accordance with Victoria EPA (2000) Groundwater Sampling Guidelines.
- During purging, a calibrated water quality meter was used to take frequent measurements of field water quality parameters, including pH, EC, temperature, redox, and dissolved oxygen, until parameters stabilise. A minimum of three well volumes were purged prior to collection of samples. Parameters were considered stable when three consecutive readings (obtained about 3-4 litres apart) were within:
  - 10% for dissolved oxygen and turbidity
  - 3% for electrical conductivity (specific conductance)
  - +/- 0.05 for pH
  - +/- 10 mV for redox potential.
- Following purging, representative groundwater samples were collected into laboratory supplied containers for the specified analysis suite. Sample volumes and containers were suitable to achieve the required reporting limits. Samples for heavy metals analysis were field filtered through dedicated 45µm filters for assessing dissolved concentrations, ensuring data is comparable with previous monitoring rounds.

Details on preservation and holding times are shown in Table 7-3.

Table 7-3 Water Sampling Requirements

| Parameter | Container | Sample volume | Preservation | Holding Time (for extraction) |
|---|---|---|---|---|
| Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) | Plastic bottle | 1x 60mL | Cool to <6°C, $HNO_3$, preservative, field filtered | 6 months |
| TRH (TRH $C_6$-$C_9$) and BTEX | Amber glass vial, Teflon lined lid | 2x 40mL (vials) | Cool to <6°C, $H_2SO_4$ preservative | 7 to 14 days |
| TRH (TRH $C_{10}$-$C_{36}$), PAH | Amber glass bottle | 1x 500ml | Cool to <6°C | 7 days |

### 7.3.1 Waste management

Excess spoil material resulting from the drilling that cannot be returned to the boreholes was stored in drums. Suitable storage and disposal of the material was undertaken by NSW Health Infrastructure.

Excess decontamination liquids and groundwater was stored in drums. It is understood NSW Health Infrastructure arranged for suitable storage and disposal of the excess liquid waste.

## 7.4 Field and laboratory testing schedule

Samples for contamination testing were submitted to the following laboratories for testing for the nominated potential contaminants of concern:

- Primary samples: Eurofins Services (179 Magowar Road, Girraween, NSW 2145)
- Secondary samples: ALS Environmental (277-289 Woodpark Road, Smithfield NSW 2164)

Both laboratories are accredited by the National Association of Testing Authorities Australia (NATA) for the tests to be performed. A summary of testing quantities is provided in Table 7-4.

Table 7-4 Summary of testing quantities

| Media | Analysis | Number of Primary Samples | Comments |
|---|---|---|---|
| Soil | TRH, BTEX, Heavy metals, PAHs, OCP, OPP, PCB, Asbestos | 32 | |
| | Dioxins | 4 | |
| | Lead and Zinc | 41 | |
| | Asbestos (NEPM) | 46 | |
| | TRH, BTEX, PAH | 28 | |
| | Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) | 5 | |
| | VHC, VOC | 5 | |
| | PCB | 2 | |
| | pH, EC, foreign materials (for ENM) | 24 | |
| | Coal Tar Test | 2 | |
| Groundwater | TRH | 5 | 1 per well |
| | BTEX | | |
| | PAH | | |
| | Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) | | |

## 7.5 Quality Assurance and Quality Control

The following quality assurance and quality control plan was adopted for the environmental sampling in general accordance with NEPM requirements.

### 7.5.1 Sample handling, storage and transportation

Sampling of soils was carried out by trained and experienced environmental staff using sampling protocols which minimise potential cross contamination occurring in between sampling locations.

During fieldworks, samples were placed in an ice-filled chest to keep the samples below the recommended preservation temperature of approximately 6°C. Samples were kept refrigerated until delivered to the testing laboratory.

Samples, including QA samples, were transported to the laboratories with relevant Chain of Custody (CoC) documentation. The CoC form was completed with the sample names, sampling date and required analyses. The samples were sent in a sealed ice chest to the laboratory for analysis within the prescribed analyte holding times.

### 7.5.2 Equipment decontamination

Reusable sampling equipment with the potential to cross contaminate samples (e.g. hand augers or stainless-steel trowel, if required), were decontaminated using a triple wash procedure; that is, washed in diluted Decon90 detergent solution, rinsed in potable water and then rinsed in distilled water. At a minimum, equipment decontamination occurred prior to use, in between each sample, at the end of each day, and prior to equipment return to suppliers.

When reusable sampling equipment was used, one rinsate blank was collected and analysed for potential contaminants of concern.

The lead drilling auger was scrubbed with a Decon90 solution and rinsed with potable water.

### 7.5.3 Equipment calibration

Monitoring equipment used to collect data was calibrated and/or serviced at regular frequency in accordance with manufacturers recommendations. At a minimum, this included a PID and WQM calibration within one month of fieldwork (i.e. minimum monthly). Regular 'bump' tests were carried out in the field to assess potential calibration drift during monitoring. Calibration certificates are included in Appendix E.

### 7.5.4 Trip blank and trip spike samples

One laboratory-prepared trip blank, and one laboratory-prepared BTEX trip spike was taken into the field, transported and analysed together with samples collected within this project at a rate of one per batch. The trip blank and spike samples were analysed for volatile contaminants (i.e. BTEX, TRH $C_6$-$C_9$ fraction).

### 7.5.5 Field duplicate samples

Duplicate samples were collected and tested for each analyte to assess precision in field sampling techniques and laboratory methods. Duplicate samples (comprising both inter and intra-laboratory) were analysed at a minimum of 1 in every 20 samples as recommended in NEPM (i.e. Analysis of intra-laboratory (5%) and inter-laboratory duplicates (5%)).

Table 7-5 below provides a summary of the duplicate identification and analysis.

Table 7-5 Field Duplicate Samples

| Primary Sample ID | Media | Duplicate ID | Type | Analysis |
|---|---|---|---|---|
| BH12/0.3-0.5 | Soil | QA01 | Intra lab duplicate | TRH, BTEX, PAH, OCP, OPP, 8 metals, PCB |
| | | QA01A | Inter lab duplicate | |
| BH29/0.5-0.6 | Soil | QA02 | Intra lab duplicate | TRH, BTEX, PAH, 8 metals, VHC, VOC |
| | | QA02A | Inter lab duplicate | TRH, BTEX, PAH, 8 metals |
| SS55/0.00-0.05 | Soil | QA03 | Intra lab duplicate | TRH, BTEX, PAH |
| | | QA03A | Inter lab duplicate | |
| TP20/0.3-0.4 | Soil | QA04 | Intra lab duplicate | TRH, BTEX, PAH, OCP, OPP, 8 metals, PCB, dioxins |
| | | QA04A | Inter lab duplicate | TRH, BTEX, PAH, OCP, OPP, 8 metals, PCB |
| TP26/0.3-0.4 | Soil | QA06 | Intra lab duplicate | TRH, BTEX, PAH, metals |
| HA43/0.3-0.4 | Soil | QA08 | Intra lab duplicate | Metals (lead, zinc) |
| | | QA08A | Inter lab duplicate | |
| BH32 | Groundwater | QA09 | Intra lab duplicate | TRH, BTEX, metals, PAH (trace analysis) |
| | | QA09A | Inter lab duplicate | |

### 7.5.6 Laboratory QA/QC

Laboratory QA/QC, including matrix spikes, laboratory method blanks and laboratory duplicates, were performed in accordance with the laboratory NATA accreditation and the requirements of the ASC NEPM, 2013.

### 7.5.7 Data quality indicators

The results will be assessed to be with respect to predetermined data quality indicators as referenced in the in the ASC NEPM, 2013 and as presented in Appendix D.

### 7.5.8 Field QAQC

The following DQI non-compliances were noted within field QAQC:

- Sample temperatures were recorded slightly above the recommended 6°C on Sample Receipt Notification for the samples from the following batches: ES2225932 (14.8°C) and ES2225933 (14.8°C). All soil and water samples were transported to the primary laboratory with sufficient ice present within ice filled chests

  SMEC consider that slightly elevated sample temperatures are unlikely to affect the data useability, noting:

  — Samples were kept in ice chilled eskies during fieldwork and refrigerated upon arrival at laboratory

  — Trip spikes were collected and analysed with each batch, and recorded recoveries were within control limits, suggesting loss of volatiles was unlikely to have occurred

- Holding times were exceeded for the following samples:

  — Analysis of moisture content for sample QA03A in batch ES222593 exceeded analysis holding times by 1 day

  — Analysis of PCBs, OCs, OPs, PAHs, TPHs, and TRHs for sample QA01A in batch ES2225933 exceeded extraction holding times by 1 day

  Given that the results correlated well with the primary and field triplicate sample for these analytes, and that all other analytes were analysed within appropriate holding times, this is unlikely to significantly impact the interpretation of the data

- Field duplicates recorded relative percentage difference (RPDs) outside of adopted control limits including:

  — Several RPDs were recorded above the control limit were recorded for metals (arsenic, chromium, and zinc) in intra and inter laboratory duplicates

  — Several RPDs were recorded above the control limit for dioxins in intra laboratory duplicates

  The high RPDs could be associated with the heterogenous nature of contaminant distribution throughout the fill matrix. Refer to Table I4 and I5, Appendix I for further detail

- Concentrations of copper were recorded above the reporting limit in sample RINSATE03 in batch 907569. Recorded concentrations of copper in batch 907569 were below the site-specific criteria . Concentrations of all other analytes, in all other rinsate samples were not detected. Thus, this is not expected to affect the useability of the sample data.

### 7.5.9 Laboratory QAQC

The following DQI non-compliances were noted within laboratory QAQC:

- Laboratory duplicates exceeded acceptance criteria in the following samples:

  — Laboratory duplicate recovery recorded RPDs outside of adopted control limits (30%) for arsenic in sample SS45/0.00-0.05 (S22-Jl0042663) (36%) and for arsenic chromium, lead and nickel in sample SS48/0.00-0.05 (S22-Jl0042767) (44%, 44%, 34%, 34%, respectively). Eurofins states that "*the RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria*", thus the exceedances are not expected to affect the useability of the sample data

- The expected QC frequencies were not met for laboratory duplicate and matrix spike (water) analysis for PAH and TRH in batch ES2225932. This batch contained the inter-laboratory duplicate sample for groundwater sampling, and the omission of these tests are not considered to affect useability for purposes of precision assessment.

### 7.5.10 QAQC summary

Based on the above data evaluation, SMEC consider the data to be useable for the purposes of this assessment.

# 8. Field and Laboratory Results

The following sections discuss the field and laboratory results from the fieldwork completed by SMEC as part of the PSI and DSI.

## 8.1 Subsurface conditions

Borehole, test pit, and hand auger logs are presented in Appendix G. A surface soil sample log is presented in Table H1, Appendix H. Photographs of typical soil profiles and examples of the soil material observed during sampling are included in Appendix F.

The generalised subsurface conditions encountered at the sampling locations during both the PSI and DSI are summarised below.

### 8.1.1 Surface Samples

Surface samples collected during DSI fieldworks were generally comprised of fill mixtures: silty clayey sand, silty sand, clayey sand, gravelly sand (sometimes silty or clayey) and sandy gravel. Refer to photos 62-89, Appendix F2.

Fine ash and ash nodules were observed at the following locations: SS48 (0.15-0.20), SS49 (0.15-0.20m bgl), SS50 (0.00-0.05 m bgl, 0.15-0.20 m bgl), SS51 (0.00-0.05 m bgl, 0.15-0.20 m bgl), SS53 (0.15-0.20 m bgl), SS54 (0.15-0.20 m bgl).

Anthropogenic material was observed at the following locations: SS45 (broken porcelain pieces, concrete rubble), SS46 (broken tiles), SS54 (string, concrete rubble), SS55 (steel pieces, concrete rubble).

### 8.1.2 Test Pit Excavations and Boreholes

A summary of subsurface conditions observed at test pit and borehole locations during both PSI and DSI fieldworks is provided in Table 8-1, below.

Table 8-1 Summary of subsurface conditions observed at test pit, hand auger, and borehole locations.

| Unit | Typical description | Depth range to top of unit (m bgl) | Indicative thickness (m) | Location and Photo Reference |
|---|---|---|---|---|
| **PAVEMENT** | Asphalt | 0.0 | ~0.05-0.10 | TP10<br>(PSI locations)<br><br>BH32, BH33<br>TP21-23<br>HA31, HA39<br>(DSI locations)<br>Appendix F2: Phot 122 |
| **CONCRETE SLAB** | Concrete | 0.0 | ~0.10 | BH29<br>HA39<br>(DSI locations) |
| **FILL** | General Fill Mixtures/layers:<br>***Sand, gravelly sand, clayey sand, silty clayey sand, clayey gravelly sand, sandy gravelly clay, gravelly sandy clay, sandy*** | 0.0 | ~0.25-1.10 | TP01-10<br>(PSI locations)<br>Appendix F2: Photo 30,32, 35-36, 94 |

| Unit | Typical description | Depth range to top of unit (m bgl) | Indicative thickness (m) | Location and Photo Reference |
|---|---|---|---|---|
| | ***clay, silty sandy gravel, silty sandy clay, silty clay***<br><br>- Anthropogenic inclusions at PSI location TP08 (bricks).<br>- Anthropogenic inclusions at DSI locations: TP07, TP13, TP15-16, TP20, TP230-25, TP27-28, HA39, HA42-43, BH29, BH12 (including a mix of glass, bricks, tiles, plastic hose, metal pieces, concrete rubble, plastic, porcelain, ceramic, steep pipe, steel reinforcement bars, clay pipe).<br>- Suspected ACM was observed at DSI locations: TP14 and TP19.<br>- Inclusions of ash observed at DSI locations: BH12, BH29, BH33, TP13-14, TP16, TP19, TP22, TP25-26, HA37-39, HA41 | | | BH29, BH12, BH30, BH32, BH33<br>TP11, TP13-17, TP19-28<br>HA31, HA34-44<br>(DSI locations)<br>Appendix F2: Photo 3, 5-18, 20-21, 29-34, 39, 41-61, 97-98, 100-106, 108-110, 112-120, 123-136 |
| | Sand, orange-brown | 0.0 | ~0.10 | BH32<br>(DSI location) |
| | General Fill Mixtures/layers (car park surface)<br>***Gravel, gravelly sand, silty sand, light brown, orange-brown*** | 0.0-0.15 | ~0.20 (or less) | TP08 and TP09 (PSI locations)<br><br>TP16, TP18<br>(DSI locations) |
| | Ash fill layers:<br>***ash, grey, dark-grey, black some ash nodules***<br><br>-Anthropogenic inclusions of plastic, glass, slag, gravels at PSI locations: TP05, TP08, TP09<br>- Anthropogenic inclusions of glass at DSI location TP11, and of glass, bricks, tree roots, porcelain, shovel at DSI location TP20 | 0.1-2.1 at TP05<br>0.15-0.3 at TP08, TP09<br>0.12-0.40 | ~2 m at TP05, ~0.15 m at TP08, TP09 (PSI locations)<br><br>Unknown at TP20: Terminated in fill layer<br><br>~0.05-0.50 m | TP05 in north-western portion of site<br>TP08 and TP09 underlying gravel carpark in north-eastern portion of site.<br>(PSI locations)<br>Appendix F1: Photos 31, 33 and 34<br><br>TP11, TP13, TP18, TP20, TP23, TP25, TP26<br>BH12<br>(DSI locations)<br>Appendix F2: Photos 94-96, 99, 109, 111, 117, 123 |

| Unit | Typical description | Depth range to top of unit (m bgl) | Indicative thickness (m) | Location and Photo Reference |
|---|---|---|---|---|
| | | | | |
| | Black, tar/cement layer | 0.30 | ~0.06 at TP22 | TP22<br>(DSI location)<br>Appendix F2: Photo 121 |
| | Gravelly sandy clay, orange<br>- Anthropogenic inclusions at PSI location TP10 (bricks). | 0.05-0.2 | ~0.15 | TP10<br>(PSI location) |
| | Silty sand, brown | 0.2-0.3 | Unknown: Terminated in fill layer due to refusal on cobbles | TP10<br>(PSI location)<br>Appendix F1: Photo 35 |
| **Residual** | General residual soil layers:<br>***Sandy clay, clayey sand, sandy silty clay, brown and red-brown***<br>- Trace gravel observed at BH29, BH30<br>- Trace black sand observed at BH32 | 0.20-1.60 | ~3.20, undetermined (locations terminated within layer) | TP01-TP09<br>(PSI locations)<br>Appendix F1: Photo 36<br>BH12, BH29, BH30, BH32, BH33<br>TP11, TP13-19, TP21-23, TP28<br>HA34-38, HA41, HA44<br>(DSI locations)<br>Appendix F2:<br>Photos 18, 35, 38, 40, 107 |
| **Extremely Weathered Material** | Clayey sand, red-brown | 0.32 at HA44<br>3.80-6.20 at BH29, BH30, BH32 | Unknown: Locations terminated above 10m bgl (target depth) | BH29, BH30, BH32<br>HA44<br>(DSI locations) |

No unusual staining or odours were noted during sampling at the DSI test locations.

Suspected ACM fragments were observed at several locations during PSI fieldwork (refer to Figure 5, Appendix A and photos 7, 16, 24, Appendix F1). Suspected ACM was also observed at DSI locations TP14 and TP19, however no asbestos was detected in these samples analytically (refer to Section 8.3.1 and Appendix I for further detail).

PID field screening of soil samples recorded negligible to low results ranging between 0.2ppm to 38.6ppm. PID records are provided in Table H2, Appendix H.

Groundwater was not observed in the test pits or hand auger boreholes to the nominated excavation depths. Groundwater was observed in boreholes BH29 and BH32 (refer to Section 8.3.2 for further detail).

## 8.2 Groundwater

Photographs of completed groundwater wells, taken either at the time of installation or monitoring, are included in Appendix F.

The following observations were noted during the single round of groundwater sampling (19 July 2022):

- Standing water level were recorded between 3.411m bgl (location BH08) and 5.582 m bgl (location BH32) (refer to Appendix H)
- pH was recorded between 5.45 (location BH29) and 7.18 (location BH08) (refer to Appendix H, and Table I3, Appendix I)
- No odour was observed at any locations, at the time of sampling.

Groundwater was observed to be medium (locations BH08 and BH29) or high (location BH32) turbidity, and brown (location BH08) or red brown (locations BH29 and BH32) coloured.

## 8.3 Laboratory results

### 8.3.1 Soil

Tabulated analytical results for soil analysis are summarised in Table I1 and Table I2, Appendix I. The laboratory analysis reports are included in Appendix J. Exceedances of adopted assessment criteria are described in the sections below and are shown in Figures 6 to 8, Appendix A.

#### 8.3.1.1 Health criteria

- ACM was not identified analytically at any DSI sampling locations
- Suspected ACM fragments were identified at three PSI sampling locations in bonded form within a fibre cement matrix and qualitatively assessed to be in a 'good' condition (i.e. could not be broken or crumbled by hand pressure, nor would they likely pass through a 7mm x 7mm sieve). These locations were:
  - PSI sample 'SS03_FRAG' collected from the ground surface on the eastern side of the Nurses Accommodation. Laboratory analysis of the fragment indicated the presence of chrysotile asbestos
  - Suspected ACM fragments were visually identified during the PSI site inspection under the car parking area in the centre of the site, north of the rose garden
  - Suspected ACM fragments were visually identified during the PSI site inspection on the ground surface directly adjacent to the west of the Life Skills building

  Locations of ACM fragments finds are shown on Figure 5, Appendix A
- Dioxin compounds were detected in all samples at levels well below the conservatively adopted preliminary human health criteria

#### 8.3.1.2 Ecological criteria

The adopted EILs and ESLs were exceeded for the following analytes:

- EIL criteria for arsenic was exceeded for DSI sample BH12/0.3-0.5
- ESL criteria for F3 fraction was exceeded for DSI sample SS46/0.00-0.05
- ESL criteria for BaP was exceeded for PSI samples TP07_0-0.1 and TP08_0.4-0.5, and for DSI samples HA35/0.0-0.1 and TP23/0.3-0.4.

Locations of ecological criteria exceedances are shown on Figure 6, Appendix A

#### 8.3.1.3 Management limits

No exceedances of adopted management limit criteria were recorded during both the PSI and DSI sampling rounds.

#### 8.3.1.4 Aesthetic criteria

Trace amounts of anthropogenic materials were identified in the soil profiles at PSI sample locations TP04, TP05, TP07, TP08, TP09 and TP10, and at DSI sample locations SS45-46, SS54-55, TP07, TP11-13, TP15-16, TP20, TP230-25, TP27-28, HA39, HA42-43, BH29, and BH12. Surface debris was observed in some areas across the site.

The quantities observed did not typically suggest a gross aesthetic issue, but should be considered in the proposed development. Ash with slag and some anthropogenic materials may present an aesthetic issue if exposed or used in upper parts of recreational/landscape areas.

#### 8.3.1.5 Preliminary waste classification

Preliminary soil waste classification was assessed using the six-step process described in the NSW EPA Waste Classification Guidelines Part 1: Classifying waste (NSW EPA, 2014).

The preliminary classification of the soil at the site is assessed as follows:

| | NSW EPA Waste Classification Steps |
|---|---|
| **Step 1** | Is the waste special waste?:<br>Laboratory analysis indicates the presence of asbestos in fragments visually identified at the site (PSI sample SS03_FRAG). Any material with asbestos will classify as ***Special Waste - Asbestos***. |
| **Step 2** | Is the waste liquid waste?:<br>**No**. The soil and capable of being picked up by a spade or shovel. |
| **Step 3** | Is the waste pre-classified?<br>**No.** The fill and disturbed soils at the site do not pre-classify. Surface debris and some building materials may be considered demolition waste and if separated can pre-classify as ***General Solid Waste (GSW) (non-putrescible)***. This excludes any material with asbestos. |
| **Step 4** | Does the waste possess hazardous characteristics?<br>**No**. No hazardous characteristics were identified by the preliminary site investigation. |
| **Step 5** | Determining a waste's classification using chemical assessment:<br>Soil results were assessed against the criteria within Table 1 of the ***NSW EPA (2014) Waste Classification Guidelines Part 1***.<br>The following exceedances were noted for the following analytes:<br>• BaP at PSI location TP08_0.4-0.5, and DSI location TP23/0.3-0.4 exceeded CT1 criteria (concentration of 0.8 mg/kg) and was below the CT2 criteria (concentration of 3.2 mg/kg).<br>• Arsenic at DSI location BH12/0.3-0.5 exceeded CT1 criteria (concentration of 100 mg/kg) and was below the CT2 criteria (concentration of 400 mg/kg).<br>• Lead at DSI locations QA06 (duplicate of sample TP26/0.3-0.4), TP25/0.5-0.6, TP26/0.3-0.4, TP22/0.0-0.1, SS53/0.15-0.20, SS50/0.00-0.05, HA37/0.4-0.5, BH12/0.9-1.0 exceeded CT1 criteria (concentration of 100 mg/kg) and was below the CT2 criteria (concentration of 400 mg/kg).<br>• Lead at DSI location SS50/0.00-0.05 exceeded CT2 criteria (concentration of 400 mg/kg).<br>• No other exceedances of CT1 criteria were observed within the samples selected for analysis.<br>Based on these exceedances, additional toxicity characteristics leaching procedure (TCLP) analysis was undertaken on the following samples:<br>• TCLP for BaP on sample TP23/0.3-0.4<br>• TCLP for arsenic on sample BH12/0.3-0.5<br>• TCLP for lead on samples BH12/0.9-1.0, TP26/0.3-0.4, SS50/0.00-0.05 |

| | NSW EPA Waste Classification Steps |
|---|---|
| | The TCLP results for all samples was below the respective GSW leachable concentration threshold (TCLP1). The concentrations were below the respective SCC1 criteria for GSW with TCLP.<br>We note that NSW EPA currently has a General Approval of the Immobilisation of Contaminants in Waste which to ash, ash-contaminated natural excavated natural excavated materials or coal-contaminated natural excavated materials (approval number 1999/05). This approval allows classification of these wastes using leachable concentrations for BaP and PAH.<br>Laboratory results are summarised in **Table I1, Appendix I.** |
| **Step 6** | Is the waste putrescible or non-putrescible?<br>**Non-putrescible**. The material is composed predominantly of clays and sands. NSW EPA (2014) indicates that materials that are generally not classified as putrescible include soils, timber, garden trimmings, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials. Based on the observations made at the sample locations, the material is non-putrescible. |

Based on the above we note the following with respect to a preliminary waste classification:

- Soils at the sample locations comprising fill or disturbed ground, as described in surface sample descriptions (Table H1, Appendix H), logs (Appendix G), and Section 8.1, suggest a potential for classification as General Solid Waste (non-putrescible).
- Materials or soils that contain asbestos are classified as *Special Waste (Asbestos)* and need to be managed appropriately.
- Surface waste (for example bricks and timber) that meet the definition of demolition waste (excluding asbestos) pre-classify as General Solid Waste (non-putrescible).
- Natural soils have the potential to classify as Virgin Excavated Natural Material (VENM) subject to careful segregation and validation.
- Some soils may be recyclable. We understand that soils that meet CT1 criteria may be able to be recycled by some waste facilities which are permitted for this activity under their Environment Protection Licence (EPL). We further understand that there are additional criteria in some of these licences additional to the CT1 values. The recycler is required to confirm that the material type, quantity and chemical make-up meets all relevant conditions of their approvals and (EPL). Subject to confirmation by the receiving recycling facility that it meets all relevant approvals and licence conditions, the material may be recyclable. Health Infrastructure would need to provide results to recyclers for them to assess and review if they would accept the material for recycling (including quantities).

SMEC tested three samples of older asphalt pavements at the site and the samples returned positive results for coal tar using RTA Test Method T542. This asphalt pre-classifies as General Solid Waste (non-putrescible), but would not meet Resource Recovery Order - The Reclaimed Asphalt Pavement Order 2014 for recycling.

#### 8.3.1.6 Chemical Control Order Dioxin

The recorded dioxin concentrations did not exceed the limit set in the CHEMICAL CONTROL ORDER IN RELATION TO DIOXIN-CONTAMINATED WASTE MATERIALS and the prohibitions of the Order would not apply.

#### 8.3.1.7 Excavated Natural Material (ENM)

Excavated natural material (ENM) is defined in the excavated natural material order 2014 (ENM Order) as:

*Naturally occurring rock and soil (including but not limited to materials such as sandstone, shale, clay and soil) that has:*

*a) been excavated from the ground, and*

*b) contains at least 98% (by weight) natural material, and*

*c) does not meet the definition of Virgin Excavated Natural Material in the Act.*

*Excavated natural material does not include material located in a hotspot; that has been processed; or that contains asbestos, Acid Sulfate Soils (ASS), Potential Acid Sulfate soils (PASS) or sulfidic ores.*

Layers with greater than 2% ash material would not meet the criteria to be classified as ENM. Ash layers were visually identified at several locations as described in the subsurface conditions section and are shown in Figure 6, Appendix A.

The analytical results were compared against the ENM criteria, presented in Table I1, Appendix I. It is noted that foreign materials tests were limited during the fieldwork, due to sample volume required for analysis. Thus, the waste classification results should be viewed as a preliminary chemical screen only. Further testing as per the ENM Order would be required for full classification, including analysis of additional analytes.

The following exceedances of the absolute maximum criteria (ENM Order) were recorded:

- Sum of C10-C36 fraction for DSI sample SS46/0.00-0.05
- BaP for DSI sample TP23/0.3-0.4
- Arsenic for DSI sample BH12/0.3-0.5
- Lead for DSI samples TP25/0.5-0.6, TP26/0.3-0.4, TP22/0.0-0.1, SS53/0-0.05, SS53/0.15-0.20, SS50/0.00-0.05, HA37/0.4-0.5, and BH12/0.9-1.0
- Zinc for DSI samples BH12/0.9-1.0, SS45/0.00-0.05, SS50/0.00-0.05, and SS53/0.00-0.05.

These areas (at a minimum) would need to be managed as hot spots.

Some soil horizons were noted to contain foreign materials such as brick, concrete and steel. Where these are layers with concentrations of non-natural materials greater that 2%, these would not meet ENM criteria. Careful segregation would be required during earthworks to strip layers of potential ENM from materials that are not ENM and some extra confirmatory testing may be required.

Were layers with say non-natural material (excluding ash) cannot be efficiently segregated and processing such as screening could be carried out to remove these materials, it may be possible to apply and obtain a site specific resource recovery order from NSW EPA to allow this occur. That option would need to be discussed with NSW EPA.

### 8.3.2 Groundwater

Tabulated analytical results for soil analysis are summarised in Table I3, Appendix I. The laboratory analysis reports are included in Appendix J.

The following results are noted from water sampling from groundwater well locations:

- pH measured in the field was outside of NHMRC (2011) drinking water guidelines (pH of 6.5-8.5) and Lachlan River WQOs (pH of 6.5-8.0) at BH29 (pH of 5.45)
- Electrical conductivity and dissolved oxygen measured in the field was outside of Lachlan River WQOs (30-350 uS/cm, 90-110%) and outside of NHMRC (2011) drinking water guidelines for dissolved oxygen (>85%), at all sampled locations
- Detectable concentrations of some metals were recorded at concentrations above the laboratory limit of detection but below adopted assessment criteria
- Other concentrations were below laboratory reporting limits and adopted assessment criteria.

# 9. Discussion

The following discussion is based on the results of the PSI and DSI assessments, with reference to the CSM developed in Section 4, which provides decision rules (Step 5) applicable to determining if contamination is present at the site that may be potentially unacceptable for the proposed development from a health and ecological perspective.

A data validation assessment was carried out and found the data collected is useable (refer to Section 7.5.10 and Appendix D).

## 9.1 AEC 1 – Ash from historical boiler house

PSI sample locations TP03, TP04, and TP05, and DSI sampling locations TP11, TP13, TP20, and BH12, targeted the north-western portion of the site, where anecdotal evidence indicated ash was historically dumped. Ash was identified at PSI locations TP04 (to 0.2m) and TP05 (to 2.1m), and at DSI locations TP11 (0.33m thick lens), TP13 (0.1m thick lens), TP20 (to 2.5m), and BH12 (0.5m thick lens).

Ash also appeared to have been used as a fill layer at the unsealed carpark located in the north-eastern portion of the site (PSI locations TP08 and TP09 – 0.15m thick lens, DSI location TP18 – 0.2m thick lens), adjacent to the rose garden (DSI location TP23 – 0.05m thick lens) and as fill in the old pool area (DSI locations TP25 and TP26 – 0.10-0.30m thick lens).

Ash nodules were also identified in mixed fill layers at the DSI surface soil locations SS48, SS49, SS50, SS51, SS5, and S54; borehole locations BH29, and BH33; test pit locations, TP14, TP16, TP19, TP22, and TP26; and, hand auger locations HA37-39, and HA41.

Reported analytical results for selected samples associated with ash material at these test pit locations exceeded the adopted site investigation criteria for the following samples:

- BaP for samples TP23/0.3-0.4 and QA06 (duplicate of sample TP26/0.3-0.4) (exceedances of ENM criteria)
- Mercury for sample TP23/0.3-0.4 (exceedances of ENM criteria)
- Cadmium and mercury for sample TP20/0.0-0.1 (exceedances of ENM and waste classification criteria)
- Lead for several samples at locations TP19, TP20, TP22, TP25, TP26, SS49, SS50, SS53 (various exceedances of waste classification and/or ENM criteria)
- Zinc for samples SS49/0.00-0.05, SS50/0.00-0.05, SS53/0.00-0.05, SS53/0.15-0.20, and SS54/0.00-0.05 (exceedances of ENM criteria).

Further, dioxins were detected above the limit of reporting at DSI locations TP20 and BH12 but did not exceed residential land use or waste disposal criteria

Ash with some slag and some anthropogenic materials may present an aesthetic issue if exposed or used in upper parts of recreational/landscape areas. The ash material identified across the site would not meet the criteria to be classified as ENM. Re-use of the ash on Site as part of the development is subject to the geotechnical suitability.

Under the current development proposal, the potentially effected materials in this area are likely to be mostly excavated for basement construction and off-site disposal/reuse

## 9.2 AEC 2 and AEC 7 – Fill of unknown origin

Fill of unknown origin was identified as an AEC potentially across the entire Site, and specifically, directly north of the rose garden in the central portion of the site (AEC 2) from infilling of a former swimming pool.

DSI locations TP24 and TP25 targeted AEC 2. The former swimming pool appeared to extend to DSI test pit TP26, where a concrete slab was encountered at 0.4m bgl. Fill was identified at these three test pit locations, up to 1.1m bgl (target depth). Exceedances of ENM and waste classification criteria were reported for lead at locations TP25 and TP26.

All PSI test pit locations, and DSI locations TP11, BH12, TP13, TP15-20, TP22-23 and TP28 targeted AEC 7.

Fill was identified at all PSI test pit locations, ranging in depth from 0.05 m at TP06, to 0.5m bgl at TP01 and TP08 (excluding the ash material identified at TP05 up to 2.1m bgl, refer to Section 8.1 for further detail). Fill was identified at DSI locations TP11, BH12, TP13, TP15-20, and TP 28, ranging in depth from 0.20m bgl at TP17, to 1.60m bgl at BH12 (excluding the ash material identified at TP20 up to 2.5m bgl, refer to Section 8.1 for further detail).

An exceedance of ENM criteria for: BaP at DSI location TP23; arsenic at DSI sample location BH12; mercury at DSI sample location TP23; zinc at DSI sample locations BH12, TP15 and TP20; lead at DSI sample locations BH12, TP19, TP20, and TP22; and, cadmium at DSI sample location TP20.

The adopted site ESL for BaP was exceeded at PSI sample locations TP07 and TP08. Each of these locations comprised sandy clay material with anthropogenic inclusions of brick, plastic and ceramic fragments. The adopted Site EIL for BaP was exceeded at DSI sample location TP23, and for arsenic was exceeded at DSI sample location BH12. Location BH12 comprised sandy clay (fill layer), sandy gravel (ash fill layer), and sandy silty clay (fill layer) with anthropogenic inclusions of glass fragments. Location TP23 comprised gravelly sandy (fill layer), sandy gravel (ash fill layer), and clayey gravelly sand (fill layer) with anthropogenic inclusions of concrete rubble and bricks.

These findings are generally consistent with fill, however, were not identified at other targeted locations. Fill material comprising anthropogenic materials would generally not be permissible for use as surface finishing soils in recreational or landscape areas due to aesthetic issues without removal of these inclusions.

Under the current development proposal, potentially effected materials in the northern 2/3rds of the site are likely to be mostly excavated for basement construction and off-site disposal/reuse.

## 9.3 AEC 3, AEC 4 and AEC 12– Fuel storage and refuelling areas

During the PSI fieldworks, minor evidence of surface staining was observed on the concrete slab inside the generator room, indicating a potential historical spill of diesel fuel. At the time, no staining or odours were noted on the unsealed ground surface adjacent to the building. A concrete slab was observed in-situ in a grass verge at the south-western car park area and was identified by site staff as the location of a former gas AST.

Anecdotal evidence suggests there may be a historic and disused UST in this area (AEC 12), directly west of the boiler house. DSI locations BH30, BH32, and HA31 targeted the AEC12 area.

Evidence of a UST was not reported by GPR at the time of DSI fieldworks. Elevated concentrations of volatiles were not reported by PID screening of soils at locations within the suspected vicinity of the UST (DSI locations BH30, BH32, and HA31) (refer to Table H2, Appendix H). No exceedances of the adopted Site criteria were reported at the sample locations associated with AEC 12, for both soils and groundwater.

One test pit (PSI location TP01) and one borehole (DSI location BH33) targeted the historical vehicle refuelling area at the south-western carpark. TP01 was located directly adjacent to the carpark asphalt, and BH33 was located within the carpark. Both locations were located downslope of the suspected historic UST location.

One PSI surface sample (SS01) and one DSI surface sample (SS55) was collected from the ground surface adjacent to the generator room (AEC 3), where spillages would have been likely to flow.

No exceedances of the adopted site criteria were reported at both PSI and DSI locations associated with AEC 3 and AEC 4.

Under the current development proposal, the majority of potentially effected materials in this area are likely to be excavated for basement construction and off-site disposal/reuse.

## 9.4 AEC 5 – Waste from hospital pathology, x-ray and renal departments

This was not assessed as part of the PSI and DSI field investigations due to access restrictions and the functioning requirements of the hospital. Further assessment is recommended in this area which may involve installation and sampling from groundwater wells, and soil sampling.

## 9.5 AEC 6 –Area under main hospital building

Whilst this area was inaccessible for soil sampling, visual assessment indicated the presence of loose asbestos pipe lagging material on the ground under the floor. Further assessment of this area is recommended once access is possible for the purpose of intrusive sampling and loose asbestos materials have been removed.

## 9.6 AEC 8 – Former boiler house

No intrusive sampling specifically targeted this AEC was carried out due to access restrictions during the PSI, however visual observations of the interior of the building identified use of suspected bonded ACM sheeting in the kitchen and bathroom and burn markings on an interior wall likely resulting from the use of a historical boiler.

DSI sampling location HA40, BH30, and BH32 targeted this AEC, in the areas adjacent to the buildings. Access restrictions remained within the interior of the building.

No exceedances of the adopted site criteria were reported at these locations, for both soils and groundwater.

Under the current development proposal, the majority of potentially effected materials in this area are likely to be excavated for basement construction and off-site disposal/reuse.

## 9.7 AEC 9 and AEC 10 – Hazardous building materials

DSI sampling locations TP14-19, TP21-23, TP26-28, HA34-44, and SS45-54 targeted AEC 9.

Exceedances of ENM and/or waste classification criteria for lead were reported at locations SS45, SS49, SS50, SS53, HA34, HA36, HA37, HA41, and HA44. Exceedances of ENM criteria for zinc were reported at location SS45, SS49, SS50, SS53, SS54, TP15, TP19, TP22, TP26, TP27, HA34, and HA36. Fill was observed at all locations with recorded exceedances, and anthropogenic material (including a mix of glass, bricks, tiles, plastic hose, metal pieces, concrete rubble, plastic, porcelain, ceramic, steep pipe, steel reinforcement bars, clay pipe) was observed at locations SS45, SS46, SS53, SS55, TP15, TP16, TP23, TP27, TP28, HA39, HA42, HA43 (refer to Table 8-1 and Section 8.1 for further detail).

Bonded ACM fragments were observed on the ground surface at three locations during PSI fieldworks and were likely associated with the hazardous materials utilised in historic buildings (i.e. specifically, the covered car parking area in the centre of the site, the life skills building and the nurses accommodation building). These locations are shown on Figure 5, Appendix A.

Suspected ACM was observed at DSI locations TP14 and TP19, however no asbestos was detected in these samples analytically (refer to Section 8.3.1 and Appendix I for further detail). ACM was not observed in the subsurface at all other PSI and DSI sampling locations, and selected samples of fill did not record the presence of asbestos.

Potential contamination associated with utilities and underground pipework was not targeted as part of this investigation. Sub-floors of buildings were not accessed during this investigation where the previous asbestos survey noted presence of friable asbestos.

## 9.8 AEC 11 – Maintenance sheds

The maintenance sheds provide a range of uses including storage of paints, storage of inert items, work shops and offices. During PSI fieldworks, no staining, odours or ACM was observed on the ground surface in the AEC11 area.

PSI test pits TP06 and TP07, and DSI locations TP14, BH29, HA34, HA35, and SS45-47 targeted this AEC in areas external to the buildings due to access.

One exceedance of BaP was identified at PSI location TP07, which is discussed above (Section 9.2) and is potentially associated with fill material.

The adopted site ESL criteria and ENM criteria for BaP was exceeded at DSI sample location HA35, and for F3 fraction was exceeded at DSI sample location SS46. No staining or odours was observed at these locations. Fill was recorded at both locations, comprising of sandy clay and clayey sand (HA35), and silty clayey sand (SS46). Anthropogenic material (broken tiles) was observed at location SS46.

Exceedances of ENM criteria for lead and zinc were recorded at DSI sample locations HA34 and SS45. Sample location HA34 is discussed above (Section 9.7) and is potentially associated with fill material. Exceedances of ENM criteria were also recorded for C10-C36 fraction (sum) at DSI locations SS45 and SS46. No staining or odours was observed at these locations.

No exceedances of other contaminants of concern relevant to this AEC were recorded in the samples selected for analysis, for both soils and groundwater.

Under the current development proposal, the majority of potentially effected materials in this area are likely to be excavated for basement construction and off-site disposal/reuse.

## 9.9 Duty to Report Contamination

The NSW EPA (2015) Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997 provide guidance on when an owner of property or person whose activities have contaminated land may have a duty to report contamination to the NSW EPA. Certain triggers are discussed in the guidelines including for soil and groundwater for on and offsite.

Based on our review of the guidelines and the results of this assessment, we consider that the current chemical data does not trigger a duty to report to the EPA. Whilst some exceedances of guidelines have been recorded, we consider that under the current Site layout it is unlikely that a person has been or foreseeably will be exposed to the contaminant or a by-product of the contaminant.

# 10. Conclusions and Recommendations

## 10.1 Conclusions

### 10.1.1 Site conditions

The Site has been utilised as a hospital since 1885 until present day. Some changes have occurred to the hospital during its operation including demolition of building structures and building new structures. An asbestos survey showed that asbestos in both friable and bonded forms is present across the Site in most structures including some subsurface pipework. Boilers have been used at the Site with waste ash materials placed in parts of the Site as fill.

Based on the Site history and observations, twelve potential areas of environmental concern (AEC) and associated potentially contamination sources were identified, including the following:

- AEC 1 – On-site disposal of ash by-product from historical boiler house in the north-western portion of the site
- AEC 2 – Fill of unknown origin utilised to backfill a historical swimming pool in the central portion of the Site, now supporting the memorial rose garden
- AEC 7 – Fill of unknown origin potentially used for site levelling purposes across the site footprint
- AEC 3 – Back-up generator and diesel fuel storage in an AST
- AEC4 – Historical fuel storage (gas AST) and vehicle fuelling area located in the south-western portion of the site, at the undercover car park
- AEC 5 – Waste from function hospital pathology, x-ray and renal departments
- AEC 6 – Area under main hospital building from asbestos
- AEC 8 – Use of former boiler house
- AEC 9 and AEC 10 – Hazardous building materials in historical structures
- AEC 11 – Historical and ongoing use of maintenance sheds
- AEC 12 – Potential historical UST

Both PSI and DSI field observations and analytical results were considered in this assessment.

The PSI (with limited sampling) entailed advancement of ten test pits and opportunistic sampling surface soils. The DSI included excavation of 17 test pits, hand augering at 12 locations across the site, 11 surface soil samples, and drilling of 5 boreholes, 3 of which were converted to groundwater monitoring wells.

Fill was observed at all DSI sampling locations, with anthropogenic materials observed at 21 locations, with ash fill observed at eight locations and ash material observed in general fill layers at 19 locations Ash material is likely associated with historical disposal of boiler ash. This is in line with PSI findings, whereby fill was observed across the site, including anthropogenic materials and ash.

Residual natural soils were generally characterised as sandy clay, clayey sand, sandy silty clay, brown and red-brown coloured. Residual natural soils were encountered at all PSI sample locations TP1-TP9, and at DSI sample locations TP11, TP13, TP18, TP20, TP23, TP25, TP26, and BH12.

Extremely weathered material was generally characterised as clayey sand, red-brown coloured. This was observed at DSI sample locations BH29, BH30, BH32, and HA44.

Soil contamination exceeding the adopted assessment criteria was recorded as follows:

- Health criteria: Health criteria was exceeded at three locations where bonded ACM fragments were observed on the ground surface associated with ACM on nearby structures
- Ecological criteria:

  - EIL criteria for arsenic was exceeded for DSI sample BH12/0.3-0.5.
  - ESL criteria for F3 fraction was exceeded for DSI sample SS46/0.00-0.05.
  - ESL criteria for BaP was exceeded for PSI samples TP07_0-0.1 and TP08_0.4-0.5, and for DSI samples HA35/0.0-0.1 and TP23/0.3-0.4
- Management limits were not exceeded
- Dioxins criteria in analysed ash materials were not exceeded.

Groundwater contamination exceeding the adopted assessment criteria was recorded as follows:

- Field parameters for pH, electrical conductivity, and dissolved oxygen exceeded Lachlan River WQOs
- Field parameters for pH and dissolved oxygen exceeded the drinking water guidelines
- Other concentrations were below laboratory reporting limits and adopted assessment criteria.

### 10.1.2 Management requirements

The current details of the proposed development suggest that the majority of fill soils will require excavation to meet design levels and will likely require offsite disposal. If this is the case then exceedances noted above would be managed through that process

If some or soils were to be reused on site, then some remediation/segregation would be required so that soils with exceedances are not used in areas such as public open space or upper layers where there is vegetation growth.

Based on the results of this investigation and with consideration of State Environmental Planning Policy (Resilience and Hazards), it is considered likely that the Site can be made suitable for the proposed hospital development and as per the proposed development layout defined in this report.

ACM fragments observed on the ground surface should be appropriately removed so that they are not a hazard to existing Site users and a clearance issued.

All hazardous building materials from remaining structures that require demolition be carried out in accordance with relevant regulations and codes along with adequate assessment and clearance prior to demolition to avoid introduction of contaminants to the ground. Due to the extensive nature of asbestos in both bonded and friable form noted in a previous asbestos survey, management and validation will be important.

Underground pipes with ACM lagging additional to those previously identified may be present at the Site. Prior to bulk earthworks such pipes need to be located and removed as inadvertent damage and mixing with soils during earthworks can create unwanted contamination issues.

Other incidental finds of contamination on site would need to be managed under an Unexpected Finds Protocol (discussed below).

All waste streams require appropriate removal or management in accordance with NSW EPA requirements. Careful segregation of different soil/waste types, along with waste tracking is required to avoid affecting waste and re-use options

Given current site conditions, an interim Site Management Plan is required until such time as proposed development details are known and implemented. The management plan would address soil management for incidental excavations, HBM management requirements including access restrictions and others, e.g., placing restrictions on excavations, ensuring ‘underfloor’ spaces under the main building and other buildings are not accessed without appropriate protocols, ACM fragments observed on the ground surface should be appropriately removed so that they are not a hazard to existing Site users.

Based on our review of the NSW EPA (2015) Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997 and the results of this assessment, we consider that the current chemical data does not trigger a duty to report to the EPA. Whilst some exceedances of guidelines have been recorded, we consider that under the current Site layout it is unlikely that a person has been or foreseeably will be exposed to the contaminant or a by-product of the contaminant.

Preliminary assessment with respect to management of soil for offsite disposal/reuse indicated:

- Chemical concentrations in fill soils met a classification of General Solid Waste (non-putrescible)
- Materials or soils that contain asbestos are classified as Special Waste (Asbestos) and need to be managed appropriately
- Some soils may be recyclable by some waste facilities which are permitted for this activity under their Environment Protection Licence
- Natural soils have the potential to classify as Virgin Excavated Natural Material (VENM) subject to careful segregation and validation
- Some soil layers as identified in this report are likely to meet the definition of ENM subject to careful segregation of hotspots and layers that do not meet the definition. These layers are defined in this report
- Were layers with say non-natural material (excluding ash) cannot be efficiently segregated and processing such as screening could be carried out to remove these materials, it may be possible to apply and obtain a site specific resource recovery order from NSW EPA to allow this occur. That option would need to be discussed with NSW EPA
- Some asphalt pavements at the site recorded the presence of coal tar. This asphalt pre-classifies as General Solid Waste (non-putrescible) but would not meet Resource Recovery Order - The Reclaimed Asphalt Pavement Order 2014 for recycling.

Although the former UST (AEC 12) was not identified during DSI fieldworks, there is still the possibility that it is present at the Site. We recommend that during earthworks, excavation in this area be carried out with caution and to check for evidence of a UST, such as pipework etc. If a UST were to be found, then this would need to managed. As such, it is noted that there are a number of laws and policies that govern the decommissioning, abandonment and removal of underground petroleum storage systems. These include (but not limited to) the NSW Work Health and Safety Regulation 2017, SafeWork NSW publication 'Notifications for Schedule 11 Hazardous Chemicals and Abandoned Tanks – Guidance Material', Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008 and associated NSW EPA Guidelines and technical notes. Typically, tanks require to be abandoned by removing them from the ground (along with associated pipework) unless removal is impractical due to proximity to structures, services etc. These tanks, if any, could continue to act as a source of contamination, particularly to groundwater and offsite receptors. To comply with the above guidance in the case of the UST being identified, the following would be required:

- The suspected tank area should be excavated in careful layers in case of UST presence
- If USTs is located during excavations, the tank should be removed offsite
- Removal of any tank and impacted soils from UST removal would likely remove a large part of any primary and any secondary sources of contamination from the Site and would assist with managing contaminants for future developments. Potential offsite impacts may need to be considered if contamination is encountered
- If the tank(s), if any, were to be abandoned in-situ, then further assessment would be required in these areas to assess if this is a suitable option
- A validation report would also be required post completion of abandonment within the required timeframes.

Further investigation is required to assess the potential for contamination in the identified AECs, AEC 5 and AEC6. Further assessment of these areas is recommended once access is possible for the purpose of intrusive sampling (likely required post demolition).

Given current site conditions, an interim Site Management Plan is required until such time as proposed development details are known and implemented. The management plan would address soil management for incidental excavations, HBM management requirements including access restrictions and others.

## 10.2 Recommendations

Considering the above, SMEC recommend that:

- An Interim Site Management Plan be prepared and implemented to ensure appropriate management of hazardous building materials and subsoils during maintenance works prior to development works commencing
- A Hazardous Building Material Management Plan be prepared and implemented outlining amongst others:
  - How HBMs will be removed from existing buildings and soil surfaces safely and effectively in accordance with statutory requirements, amongst others including air monitoring
  - How underground ACM pipes or metal pipes with asbestos lagging would be extracted and managed safely
  - Validation protocols for post demolition soil surfaces
- A Material Management/Reuse Plan be prepared and implemented outlining amongst others:
  - Demolition waste management requirements and methods
  - Excavation and material segregation requirements and protocols aiming at minimising unintended mixing of different material types
  - Stockpiling, waste classification and disposal/reuse protocols and methods
  - UST search and management protocols and methods
  - An Unexpected Finds Protocol
- Suitable budget allowances be set aside for material management amongst others including the ash materials
- Suitably experienced contractors be engaged for the demolition of buildings and earthworks to minimise the risk of excessive HBM emissions during demolition and of unintended mixing of different excavation materials during site clearing and bulk earth works
- The recommendations not be considered in isolation of the conclusions in Section 10.1 and the remainder of the report.

# 11. References

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Acor Consultants (2022) Review of Environmental Factors design report, Job No.: ACR-CIV-RPT-003, Revision B, dated 15 December 2022.

# Appendix A. Figures 1 to 8

**LEGEND**

Site Location

Contours 2m

Cowra Water Treatment and Storage

Bellevue Hill Reserve and Lookout

Cowra

Cowra Station

Lachlan River

Mid Western Highway

Coora Street

Coora Lane

Keswick Street

Smith Street

Lachlan Street

Macquarie Street

Phillips Street

Bennalong Place

Scenic Drive

Ina Drive

Daly Street

Flint Lane

Poignand Avenue

Brisbane Lane

Sale Court

Liverpool Street

Carleton Street

Narrawa Place

Redfern Street

Bartlett Avenue

Darling Street

Fitzroy Street

College Drive

Frost Place

Busby Place

Railway Lane

Railway Street

Vaux Street

Darbys Falls Road

| | | | | | |
|---|---|---|---|---|---|
| **FIG NO.** 1 | **FIGURE TITLE** Site Locality Plan | **DATE** 16/06/2022 | 0 20 40 80 120 160 200 Meters 1:4,000 | **PAGE SIZE** A3 | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | | |

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**LEGEND**

- Site Location
- Cadastre

Unsealed grass parking area

Unsealed gravel parking area

Maintenance Sheds

Covered Fleet / Staff Parking

Life Skill (Old Daycare Building)

Old Nurses Quarter

Back up generator

Sub station

Covered Parking

Rose Garden (Old Swimming Pool)

Old Boiler House

Stores

Staff Accommodation (Old Nurses Building)

Linen

Covered Parking

Pharmacy

Pocket Garden

Ambulance Bay

Main Hospital Building

Brisbane Lane

Brisbane Street

Liverpool Street

Liverpool Street

Ina Drive

Ina Drive

Carleton Street




| | | | | | |
|---|---|---|---|---|---|
| **FIG NO.** 2 | **FIGURE TITLE** Site Layout Plan | **DATE** 16/06/2022 | 0 2.5 5 10 15 20 25<br>1:750 Meters | **PAGE SIZE** A3 | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | | |

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## LEGEND

Site Location

**Geological boundaries and faults**

Geological boundary, position accurate

Geological boundary, position approximate

Dyke or Vein

Lineament interpreted from geophysical data; 16.05.07f

**Rock Units - patterns**

Basalt

Dolerite

Fine grained igneous rock

Granodiorite

**Rock Units CENOZOIC SEDIMENTARY PROVINCE**

CZ_a - Unconsolidated alluvial clay, silt, sand, and gravel deposits

Q_af - Silt, very fine- to medium-grained lithic to quartz-rich sand, clay

**Rock Units LACHLAN OROGEN**

Cul__d - Dolerite, diorite, gabbro, tonalite

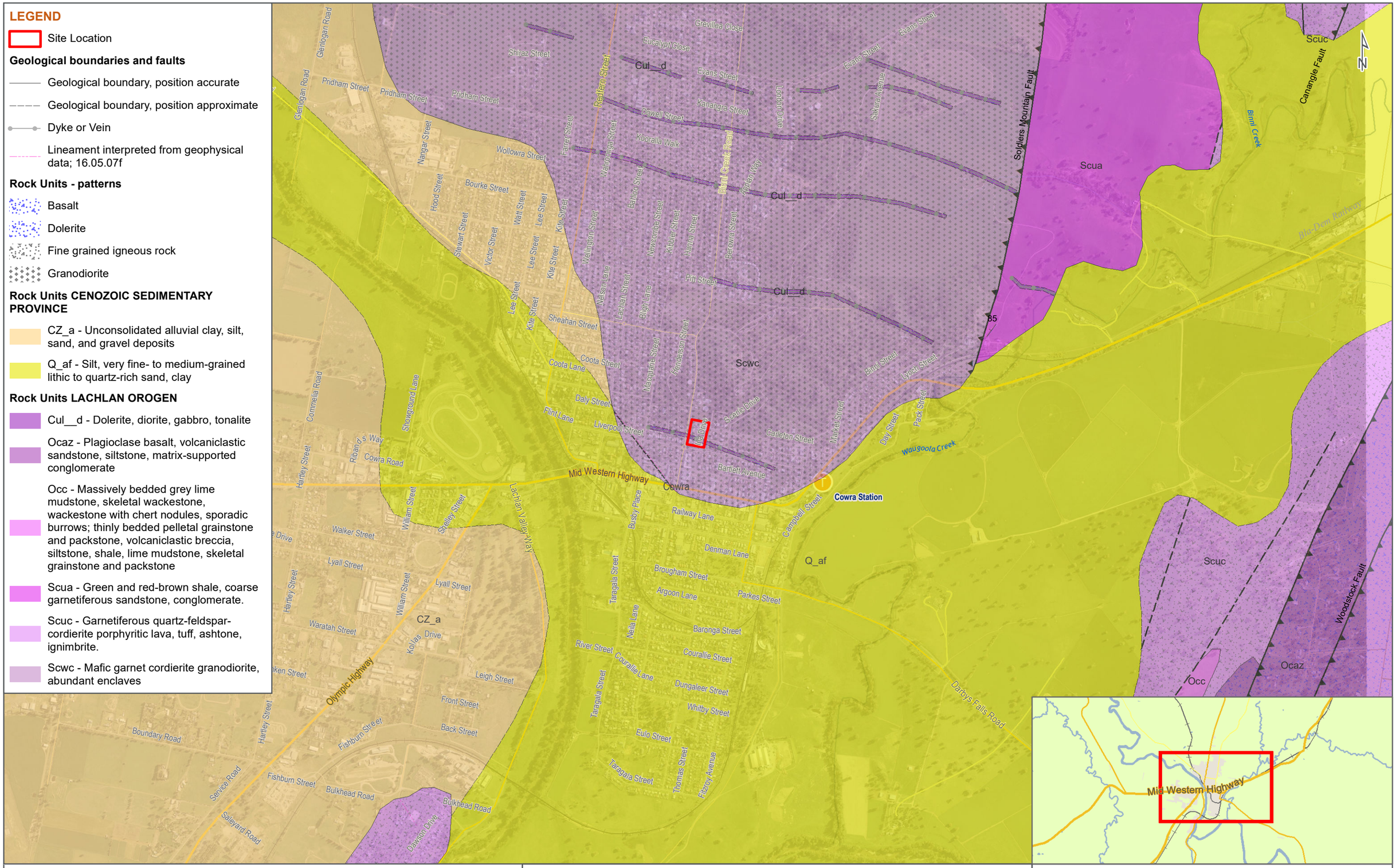
Ocaz - Plagioclase basalt, volcaniclastic sandstone, siltstone, matrix-supported conglomerate

Occ - Massively bedded grey lime mudstone, skeletal wackestone, wackestone with chert nodules, sporadic burrows; thinly bedded pelletal grainstone and packstone, volcaniclastic breccia, siltstone, shale, lime mudstone, skeletal grainstone and packstone

Scua - Green and red-brown shale, coarse garnetiferous sandstone, conglomerate.

Scuc - Garnetiferous quartz-feldspar-cordierite porphyritic lava, tuff, ashtone, ignimbrite.

Scwc - Mafic garnet cordierite granodiorite, abundant enclaves




| | | | | |
|---|---|---|---|---|
| **FIG NO.** 3 | **FIGURE TITLE** Regional Geology | **DATE** 16/06/2022 | 0 105 210 420 630 840 1,050 Meters 1:20,000 | **PAGE SIZE** A3 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, Geology © State of New South Wales and Department of Planning and Environment 2018 MetroMap Imagery © Aerometrex Pty Ltd | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |

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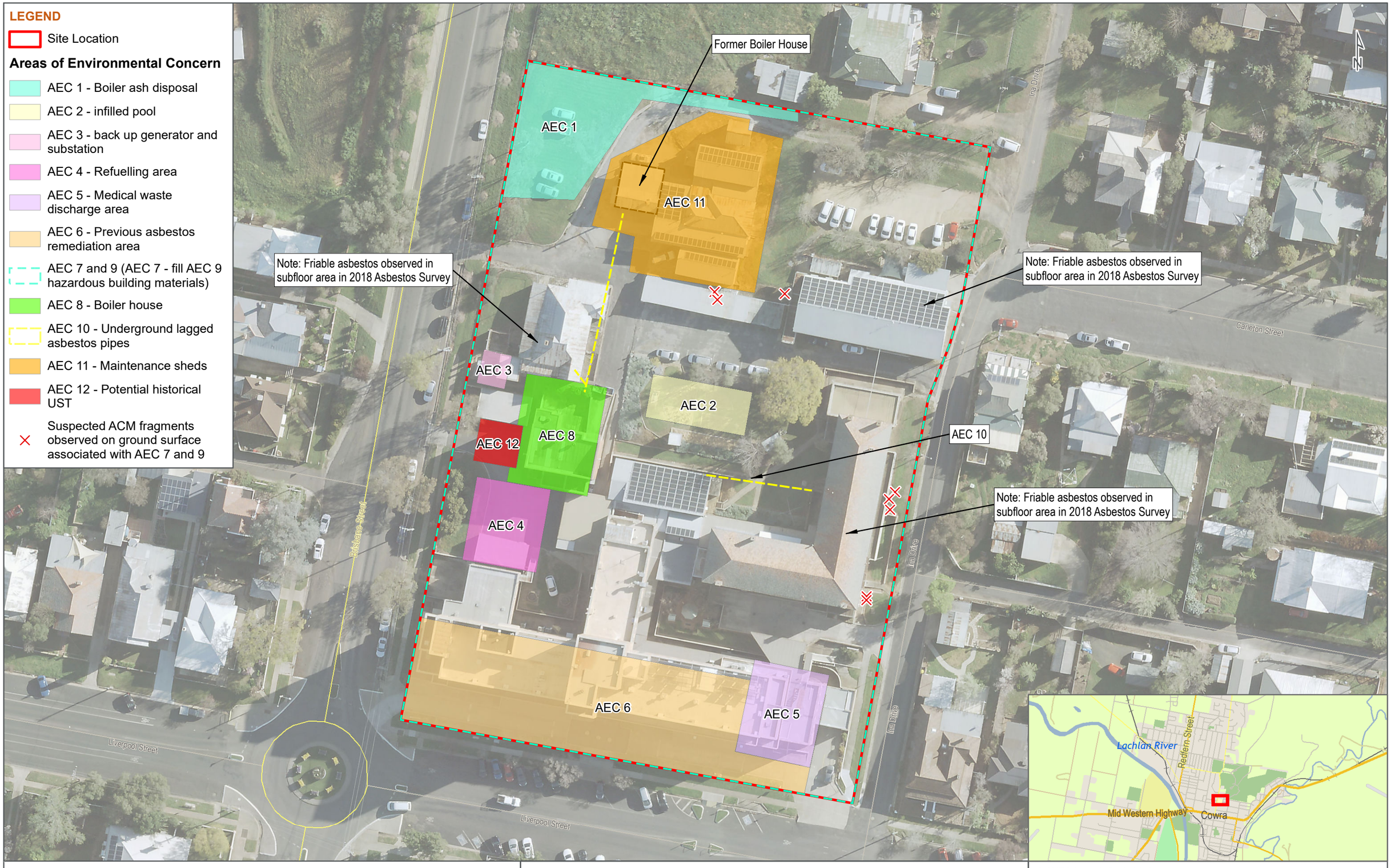
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**LEGEND**

Site Location

**Areas of Environmental Concern**

- AEC 1 - Boiler ash disposal
- AEC 2 - infilled pool
- AEC 3 - back up generator and substation
- AEC 4 - Refuelling area
- AEC 5 - Medical waste discharge area
- AEC 6 - Previous asbestos remediation area
- AEC 7 and 9 (AEC 7 - fill AEC 9 hazardous building materials)
- AEC 8 - Boiler house
- AEC 10 - Underground lagged asbestos pipes
- AEC 11 - Maintenance sheds
- AEC 12 - Potential historical UST
- Suspected ACM fragments observed on ground surface associated with AEC 7 and 9




| | | | | | |
|---|---|---|---|---|---|
| **FIG NO.** 4 | **FIGURE TITLE** Areas of Environmental Concern | **DATE** 16/06/2022 | 0 2.5 5 10 15 20 25<br>1:750 Meters | **PAGE SIZE** A3 | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | | |

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## LEGEND

**PSI Investigation Locations (SMEC 2022)**

- Targeted Surface Sample
- Test Pit Location
- Suspected ACM Fragments on ground surface

**DSI Proposed Investigation Locations**

- Test Pit Location
- Borehole Location
- Borehole/Convert to Well
- Existing Well (installed by Geotech)
- Hand Auger (<0.5m)
- Surface samples (shovel/sample at 2 depths 0.2m)
- Coal Tar Sample Location
- Grid (25m x 25m)
- Former UST
- Former pool
- Site Location




| | | | | |
|---|---|---|---|---|
| **FIG NO.** 5 | **FIGURE TITLE** Sample Locations | **DATE** 27/07/2022 | 0 2.5 5 10 15 20 25 Meters 1:750 | **PAGE SIZE** A3 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |

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## LEGEND

**PSI Investigation Locations (SMEC 2022)**

- Targeted Surface Sample
- Test Pit Location
- Suspected ACM Fragments on ground surface

**DSI Proposed Investigation Locations**

- Test Pit Location
- Borehole Location
- Borehole/Convert to Well
- Existing Well (installed by Geotech)
- Hand Auger (<0.5m)
- Surface samples (shovel/sample at 2 depths 0.2m)
- Coal Tar Sample Location
- Grid (25m x 25m)
- Former UST
- Former pool
- Site Location

**ENM Exceedances**

- Location contains exceedance of ENM Chemical Criteria
- Ashlayer observed at location (ash cannot be ENM)

*Some soil layers/horizons also visually contain >2% foreign materials (e.g. brick, steel, concrete etc) - these have not been shown on this figure.*




| | | | | |
|---|---|---|---|---|
| **FIG NO.** 6 | **FIGURE TITLE** ENM Exceedances | **DATE** 31/08/2022 | 0 2.5 5 10 15 20 25<br>1:750 Meters | **PAGE SIZE** A3 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |

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## LEGEND

**PSI Investigation Locations (SMEC 2022)**

- Targeted Surface Sample
- Test Pit Location
- Suspected ACM Fragments on ground surface

**DSI Proposed Investigation Locations**

- Test Pit Location
- Borehole Location
- Borehole/Convert to Well
- Existing Well (installed by Geotech)
- Hand Auger (<0.5m)
- Surface samples (shovel/sample at 2 depths 0.2m)
- Coal Tar Sample Location
- Grid (25m x 25m)
- Former UST
- Former pool
- Site Location

**Landuse Criteria Exceedances**

- Exceeds ESL criteria
- Exceeds EIL criteria
- Exceeds HIL criteria




| | | | | |
|---|---|---|---|---|
| **FIG NO.** 7 | **FIGURE TITLE** Landuse Criteria Exceedances | **DATE** 31/08/2022 | **PAGE SIZE** A3 | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | |

0 2.5 5 10 15 20 25
1:750 Meters

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## LEGEND

**PSI Investigation Locations (SMEC 2022)**

- Targeted Surface Sample
- Test Pit Location
- Suspected ACM Fragments on ground surface

**DSI Proposed Investigation Locations**

- Test Pit Location
- Borehole Location
- Borehole/Convert to Well
- Existing Well (installed by Geotech)
- Hand Auger (<0.5m)
- Surface samples (shovel/sample at 2 depths 0.2m)
- Coal Tar Sample Location
- Grid (25m x 25m)
- Former UST
- Former pool
- Site Location

**CT Waste Classification Criteria Exceedances**

- Exceeds CT1 criteria (without TCLP)
- Exceeds CT2 criteria (without TCLP)







| | | | | |
|---|---|---|---|---|
| **FIG NO.** 8 | **FIGURE TITLE** CT Waste Classification Criteria Exceedances | **DATE** 31/08/2022 | 0 2.5 5 10 15 20 25<br>1:750 Meters | **PAGE SIZE** A3 |
| **PROJECT NO.** 30013211 | **PROJECT TITLE** Detailed Site Investigation – Cowra Hospital | **CREATED BY** FA13847 | **SOURCES** Roadnet MDS 2020, MetroMap Imagery © Aerometrex Pty Ltd | **COORDINATE SYSTEM** GDA 1994 MGA Zone 55 |

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# Appendix B. Copy of Schematic Design

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1




## SITE PLAN LEGEND

- TREES - REFER LANDSCAPE PLAN
- EXISTING SURROUNDING BUILDING
- MAIN ENTRY TO FRONT OF HOUSE
- RETAINING WALL
- 5.5 METER SETBACK
- SITE BOUNDARY
- XX.00 SIGNAGE AND WAYFINDING. REFER TO DWG ***REF 70*** FOR DETAILS

This drawing should be read in conjunction with all relevant contracts, specifications and drawings. Dimensions are in millimetres. Levels are metres. Do not scale off drawings. Use figured dimensions only. Check dimensions on Site. Report discrepancies immediately.

NOTES

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| ISSUE | DATE | SUBJECT | VALID'N. |
|---|---|---|---|
| D | 09/12/22 | ISSUED FOR REF | GF |
| C | 01/12/22 | Final - For MW REF | DB |
| B | 25/11/22 | REVISED DRAFT REF | DB |
| A | 18/11/22 | PRELIMINARY DRAFT REF | DB |

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LANDSCAPE ARCHITECT

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REDFERN, NSW 2016
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djrd architects
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ABN: 48 942 921 969
Nominated Architects:
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Daniel Beekwilder 6192
63 Myrtle Street
Chippendale NSW 2008
Sydney Australia
djrd.com.au

PROJECT

# COWRA HOSPITAL REDEVELOPMENT

64 LIVERPOOL STREET
COWRA, NSW

PHASE

SCHEMATIC DESIGN

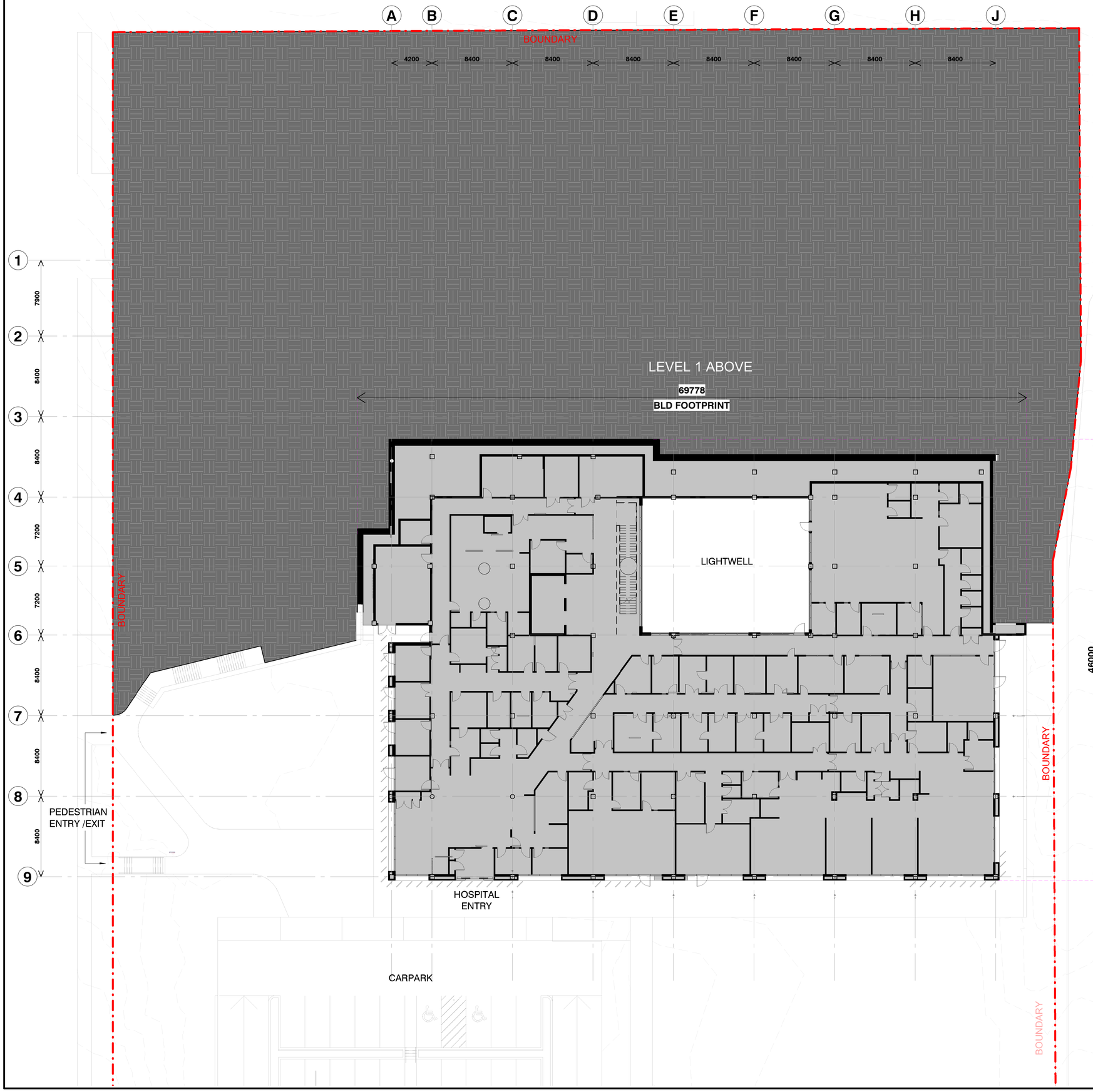
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|---|---|---|---|
| Author | 1 : 400 | | 11/17/22 |

DESCRIPTION

SITE PLAN

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734-DJRD~~REF~~ | 01 | D |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1




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|---|---|---|---|
| D | 09/12/22 | ISSUED FOR REF | GF |
| C | 25/11/22 | REVISED DRAFT REF | DB |
| B | 18/11/22 | PRELIMINARY DRAFT REF | DB |
| A | 29/07/22 | PRELIMINARY | DB |

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ABN: 48 942 921 969
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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

64 LIVERPOOL STREET
COWRA, NSW

PHASE

SCHEMATIC DESIGN

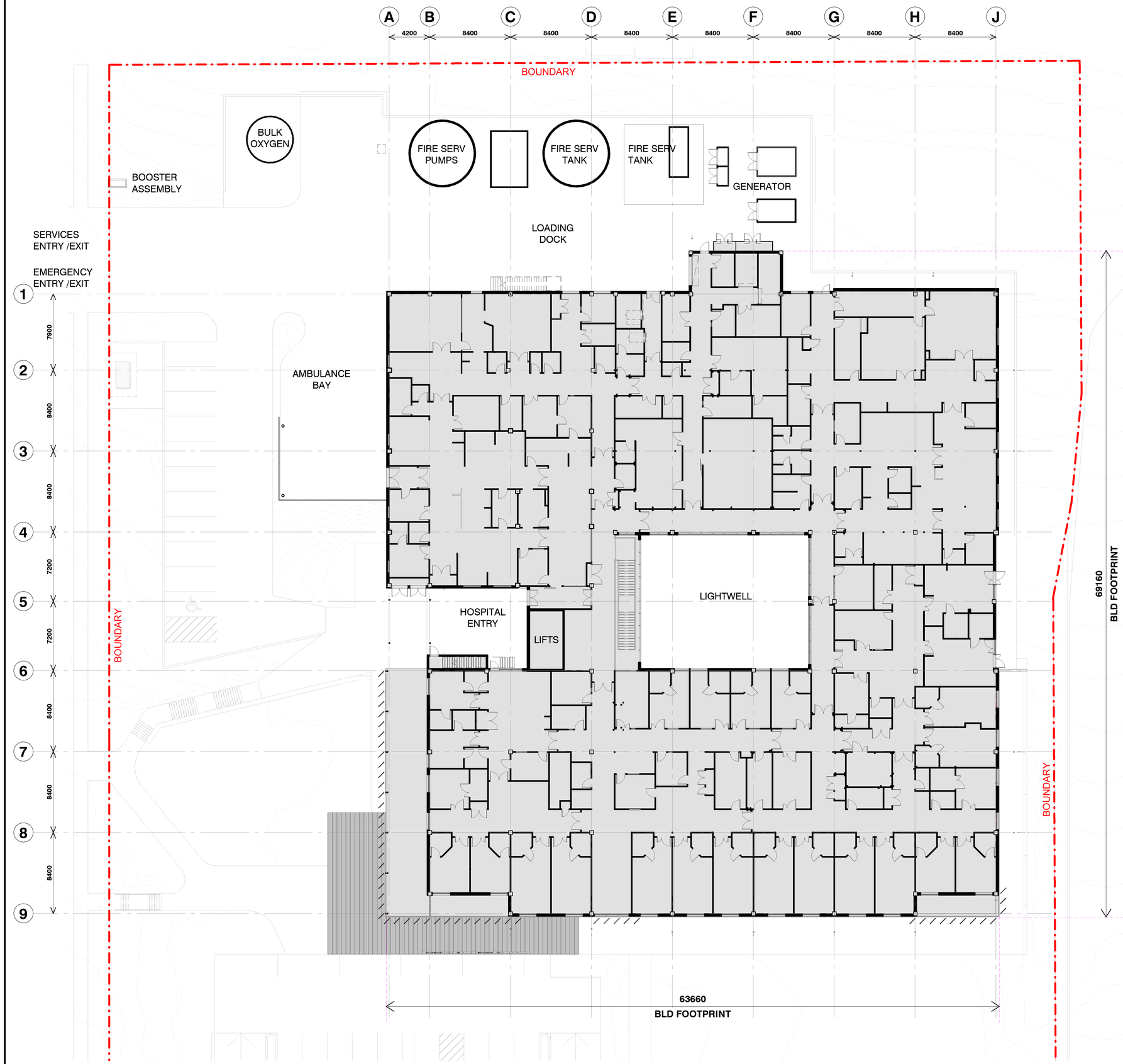
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| GB | 1 : 200 | | 07/29/22 |

DESCRIPTION

## GA PLAN - GROUND FLOOR

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734-DJRD~~REF~~ | 10 | D |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1




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NOTES

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| ISSUE | DATE | SUBJECT | VALID'N. |
|---|---|---|---|
| D | 09/12/22 | ISSUED FOR REF | GF |
| C | 25/11/22 | REVISED DRAFT REF | DB |
| B | 18/11/22 | PRELIMINARY DRAFT REF | DB |
| A | 29/07/22 | PRELIMINARY | DB |

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djrd.com.au

PROJECT

# COWRA HOSPITAL REDEVELOPMENT

64 LIVERPOOL STREET
COWRA, NSW

PHASE

SCHEMATIC DESIGN

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
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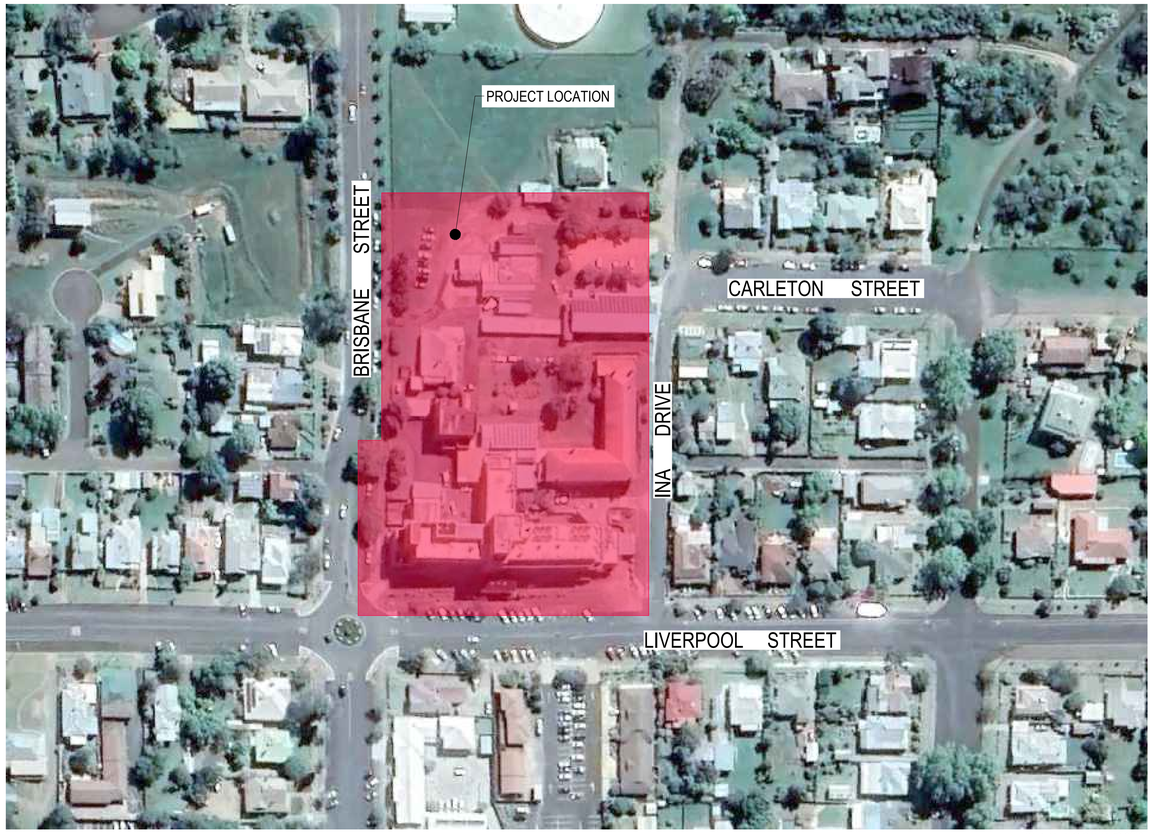
DESCRIPTION

## GA PLAN - FIRST FLOOR

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734-DJRD~~REF~~ | 11 | D |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

# COWRA HOSPITAL REDEVELOPMENT
# CORNER LIVERPOOL AND BRISBANE ST, COWRA NSW
## CIVIL ENGINEERING SERVICES




MAP DATA @ SIXMAPS 2022

LOCALITY PLAN
NOT TO SCALE

## DRAWING INDEX

| DWG NAME | DRAWING NUMBER | DRAWING TITLE | REVISION |
|---|---|---|---|
| 130734-ACOR-CI-DWG-01-001 | 01-001 | COVER SHEET AND DRAWING INDEX | B |
| 130734-ACOR-CI-DWG-01-002 | 01-002 | LEGENDS | B |
| 130734-ACOR-CI-DWG-01-201 | 01-201 | KEY PLAN | B |
| 130734-ACOR-CI-DWG-03-101 | 03-101 | SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 1 | B |
| 130734-ACOR-CI-DWG-03-102 | 03-102 | SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 2 | B |
| 130734-ACOR-CI-DWG-03-201 | 03-201 | SOIL EROSION AND SEDIMENT CONTROL NOTES | B |
| 130734-ACOR-CI-DWG-03-301 | 03-301 | SOIL EROSION AND SEDIMENT CONTROL DETAILS | B |
| 130734-ACOR-CI-DWG-04-101 | 04-101 | BULK EARTHWORKS PLAN - SHEET 1 | B |
| 130734-ACOR-CI-DWG-04-102 | 04-102 | BULK EARTHWORKS PLAN - SHEET 2 | B |
| 130734-ACOR-CI-DWG-05-101 | 05-101 | CIVIL WORKS PLAN - SHEET 1 | B |
| 130734-ACOR-CI-DWG-05-102 | 05-102 | CIVIL WORKS PLAN - SHEET 2 | B |
| 130734-ACOR-CI-DWG-08-101 | 08-101 | STORMWATER MANAGEMENT PLAN - SHEET 1 | B |
| 130734-ACOR-CI-DWG-08-102 | 08-102 | STORMWATER MANAGEMENT PLAN - SHEET 2 | B |

DIAL BEFORE YOU DIG

DIAL BEFORE YOU DIG www.1100.com.au

IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

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| ISSUE | DATE | SUBJECT | VALID'N. |
|---|---|---|---|
| P1 | 21.09.22 | ISSUE FOR COORDINATION | NP |
| P2 | 04.10.22 | ISSUE FOR COORDINATION | CR |
| A | 18.11.22 | DRAFT SCHEMATIC DESIGN | NP |
| B | 15.12.22 | ISSUE FOR MAIN WORKS REF | NP |

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PROJECT

COWRA HOSPITAL REDEVELOPMENT
CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE
APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | N/A | A1 | AUG 2022 |

DESCRIPTION
COVER SHEET AND DRAWING INDEX

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 01-001 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

## CIVIL LEGEND PROPOSED

- KG — KERB AND GUTTER
- KO — KERB ONLY
- FK — FLUSH KERB
- DD900 — DISH DRAIN WITH WIDTH
- WHEEL STOP
- B1 — BOLLARD AND NUMBER
- RW — RETAINING WALL
- •P56.20 — FINISHED SURFACE LEVEL
- •EX56.20 — EXISTING SURFACE LEVEL
- •CL56.20 — COVER LEVEL
- •BOW56.20 — BOTTOM OF WALL LEVEL
- •TOW58.40 — TOP OF WALL LEVEL
- 56.00 — FINISHED SURFACE CONTOUR MAJOR
- 56.20 — FINISHED SURFACE CONTOUR MINOR
- DP — DOWNPIPE CONNECTION (Ø150 uPVC UNO)
- GRASS LINED SWALE DRAIN (GRASS TO BE LAID KIKUYU OR EQUAL)
- GRATED DRAIN
- SSD — SUBSOIL DRAINAGE LINE
- SSD IR SSD HER — SUBSOIL HIGH END RISER AND INTERMEDIATE RISER
- P5 — STORMWATER DRAINAGE STRUCTURE WITH NUMBER (REFER STORMWATER DRAINAGE STRUCTURES SCHEDULE)
- STORMWATER DRAINAGE LINE WITH;
  - IL 25.30 — INVERT LEVEL UPSTREAM
  - Ø375 RCP '2' — PIPE SIZE AND MATERIAL CLASS
  - 1.0% — PIPE GRADE
  - 10m — PIPE LENGTH
  - IL 25.10 — INVERT LEVEL DOWNSTREAM
- RWO — RAINWATER OUTLET
- BH05 — BOREHOLE LOCATIONS
- RWT — RAINWATER TANK
- FFL 332.500 — FINISHED FLOOR LEVEL

## SOIL EROSION AND SEDIMENT CONTROL LEGEND-PROPOSED WORKS

- SEDIMENT FENCE
- PIT INLET TRAP
- SAND BAG SEDIMENT TRAP
- STABILISED CONSTRUCTION EXIT
- ROCK CHECK DAM
- CATCH DRAIN
- SEDIMENT BASIN

## EXITING SERVICES LEGEND

- EX/D — EXISTING DRAINAGE
- EX/S — EXISTING SEWER MAIN
- EX/C — EXISTING COMMUNICATIONS MAIN
- EX/G — EXISTING GAS MAIN
- EX/W — EXISTING WATER MAIN
- EX/E — EXISTING ELECTRICITY
- EX/OF — EXISTING OPTIC FIBRE
- EX/T — EXISTING TELSTRA
- EX/U — EXISTING PIPE UNKNOWN
- EXISTING DRAINAGE PIT
- EXISTING WATER HYDRANT
- EXISTING COMMUNICATIONS PIT
- EXISTING POWER POLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING SEWER PIT
- EXISTING GAS VALVE
- EXISTING TREE

## SIGNAGE LEGEND

- GIVE WAY (R1-2) — GIVEWAY SIGN
- ONE WAY (R2-2 (L)) — ONE WAY
- NO ENTRY (R2-4) — NO ENTRY
- EMERGENCY VEHICLES EXCEPTED (R9-200) — EMERGENCY VEHICLE EXCEPTED
- P ONLY (R5-1-3 (L)) / P ONLY (R5-1-3 (R)) — DISABILITY PARKING (LEFT & RIGHT)
- AUTHORISED VEHICLES EXCEPTED — AUTHORISED VEHICLES EXCEPTED
- NO STOPPING (R5-400 (L)) / NO STOPPING (R5-400 (R)) / NO STOPPING (R5-400 (L/R)) — NO STOPPING (LEFT, RIGHT, BOTH WAYS)
- NO LEFT TURN (R2-6 (L)) / NO RIGHT TURN (R2-6 (R)) — NO LEFT TURN, NO RIGHT TURN

## PAVEMENT LEGEND

PAVEMENT TYPE 1
ASPHALT PAVEMENT (CARPARK)
ESA = 1 x $10^5$
CBR = 6%

DESIGN FINISHED SURFACE LEVEL
- 30mm AC10
- 150mm DGB20 RECYCLED BASECOURSE COMPACTED TO 100% SMDD
- 150mm DGS40 RECYCLED SUBBASE COURSE COMPACTED TO 100% SMDD
- EXISTING SUBGRADE 6% CBR. ROLL AND COMPACT IN ACCORDANCE WITH GEOTECH REQUIREMENTS

PAVEMENT TYPE 2
CONCRETE PAVEMENT HARDSTAND
ESA = 5 x $10^5$ (ASSUMED)
CBR = 6%

DESIGN FINISHED SURFACE LEVEL
- 180mm THICK CONCRETE (f'c = 32MPa) WITH SL92 TOP (60 COVER)
- 150mm DGB20 RECYCLED BASECOURSE COMPACTED TO 100% SMDD
- EXISTING SUBGRADE 6% CBR. ROLL AND COMPACT IN ACCORDANCE WITH GEOTECH REQUIREMENTS

PAVEMENT TYPE 3
CONCRETE FOOTPATH PAVEMENT

DESIGN FINISHED SURFACE LEVEL
- 125mm THICK CONCRETE (f'c = 32MPa) WITH SL72 CENTRALLY LOCATED
- 50mm SAND BLINDING
- COMPACTED SUBGRADE

## PAVEMENT MARKING LEGEND

- P1 — PARKING BAY LINE (100)
- BB — DIVIDING BARRIER LINE - BOTH DIRECTIONS (100 / 100 / 100)
- TB — GIVEWAY LINE (600 / 600 / 600 / 600)
- TF — STOP LINE (300 / 300)
- L1 — LANE LINE (3m / 9m / 100)
- THROUGH ARROW
- DIRECTIONAL ARROW
- PROPOSED DISABLED CAR PARKING SPACE AND SHARED ZONE WITH BOLLARD. (B1)
- PROPOSED DISABLED CAR PARKING SPACE (1200 MAX / 1200 MAX)
- CHEVRON (600 / 600 / 45°)
- PROPOSED TRAFFIC SIGN

NOTES
1. ALL PAVEMENT MARKING AND SIGNAGE SHALL BE IN ACCORDANCE WITH AS1742, 1743, 2890 AND tfNSW QA SPECIFICATIONS.

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PROJECT
# COWRA HOSPITAL REDEVELOPMENT
CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

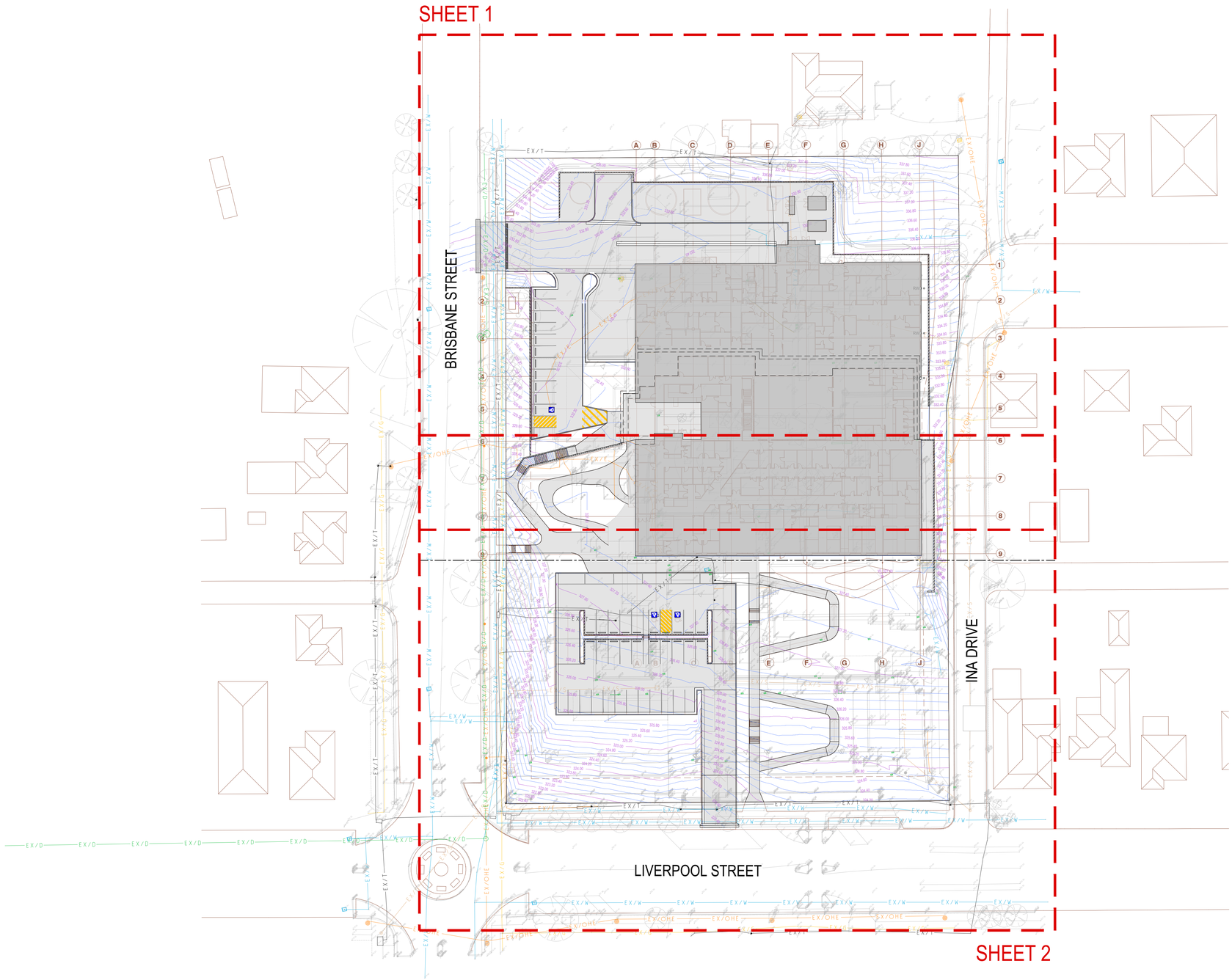
PHASE
APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | N/A | A1 | AUG 2022 |

DESCRIPTION
# LEGENDS

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 01-002 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1




SCALE 1:500 @ A1
SCALE 1:1000 @ A3
0 5 10 20 30 40 50 metres

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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE
APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | 1:500 | A1 | AUG 2022 |

DESCRIPTION
KEY PLAN

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 01-201 | B |

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

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NOTES

WRAP ALL GRATES AND PIT OPENINGS IN BIDUM A14 OR APPROVED EQUIVALENT GEOTEXTILE FABRIC UNTIL COMPLETION OF WORKS. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL. TYPICAL

CONSTRUCT SEDIMENT CONTROL FENCE. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL . TYPICAL

BRISBANE STREET

CARLETON STREET

INA DRIVE

TEMPORARY STABILISED CONSTRUCTION EXIT. CONTRACTOR TO CONFIRM LOCATION ON-SITE PRIOR TO WORKS. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL

SANDBAG SEDIMENT TRAP AROUND ALL KERB INLET PITS. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL. TYPICAL

INSTALL ROCK CHECK DAM TO PREVENT SCOURING

CUT OFF DRAIN TO BE CONSTRUCTED AND DIRECTED TOWARDS SEDIMENT BASIN

SEDIMENT BASIN. BASIN OVERFLOW TO BE DIRECTED TO INA DRIVE.
BASIN SIZING:
AREA = 105m²
DEPTH = 1.0m

ADJOINS DWG-03-102

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

SCALE 1:200 @ A1
SCALE 1:400 @ A3
0 2 4 8 12 16 20 metres

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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE

APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | 1:200 | A1 | AUG 2022 |

DESCRIPTION

# SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 1

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 03-101 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

ADJOINS DWG-03-102

STAGE 1 WORKS

STAGE 2 WORKS

BRISBANE STREET

INA DRIVE

LIVERPOOL STREET

SEDIMENT BASIN. BASIN OVERFLOW TO BE DIRECTED TO INA DRIVE.
BASIN SIZING:
AREA = 105m²
DEPTH = 1.0m

TEMPORARY STABILISED CONSTRUCTION EXIT. CONTRACTOR TO CONFIRM LOCATION ON-SITE PRIOR TO WORKS. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL

CONSTRUCT SEDIMENT CONTROL FENCE. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL . TYPICAL

WRAP ALL GRATES AND PIT OPENINGS IN BIDUM A14 OR APPROVED EQUIVALENT GEOTEXTILE FABRIC UNTIL COMPLETION OF WORKS. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL. TYPICAL

SANDBAG SEDIMENT TRAP AROUND ALL KERB INLET PITS. REFER TO 130734-ACOR-CI-DWG-03-301 FOR DETAIL. TYPICAL

EX / D

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SCALE 1:200 @ A1
SCALE 1:400 @ A3

0 2 4 8 12 16 20 metres

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PHASE

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| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | 1:200 | A1 | AUG 2022 |

DESCRIPTION

## SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 2

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 03-102 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

# EROSION AND SEDIMENT CONTROL NOTES

## GENERAL INSTRUCTIONS

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.

2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).

3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

## LAND DISTURBANCE INSTRUCTIONS

1. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.

2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.

3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.

4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:

   a. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
   b. CONSTRUCT THE STABILISED SITE ACCESS.
   c. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
   d. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
   e. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
   f. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
   g. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
   h. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
   i. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.

5. 5ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

# EROSION AND SEDIMENT CONTROL NOTES

## SITE INSPECTION AND MAINTENANCE INSTRUCTIONS

1. THE SITE PRINCIPAL'S REPRESENTATIVE WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:

   a. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
   b. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
   c. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
   d. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
   e. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
   f. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.

2. THE PRINCIPAL'S REPRESENTATIVE WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:

   a. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
   b. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
   c. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
   d. THE NEED FOR DUST PREVENTION STRATEGIES.
   e. ANY REMEDIAL WORKS TO BE UNDERTAKEN. THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

## SEDIMENT CONTROL INSTRUCTIONS

1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE PRINCIPAL'S REPRESENTATIVE TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.

2. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.

3. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.

4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.

5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE. 6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.

6. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

# EROSION AND SEDIMENT CONTROL NOTES

## SOIL EROSION CONTROL INSTRUCTIONS

1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:

   a. 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
   b. 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
   c. 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
   d. 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.

2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.

3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", DEPT OF HOUSING 2004 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.

4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.

5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.

6. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.

7. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.

8. RE-VEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

## WASTE CONTROL INSTRUCTIONS

1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BT THE PRINCIPAL'S REPRESENTATIVE.

2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.

3. ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.

4. 4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.

5. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

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NOTES

AUTHORISED FOR ISSUE DIRECTOR

SIGN OFF DATE

| ISSUE | DATE | SUBJECT | VALID'N. |
|---|---|---|---|
| A | 18.11.22 | DRAFT SCHEMATIC DESIGN | NP |
| B | 15.12.22 | ISSUE FOR MAIN WORKS REF | NP |

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PROJECT

COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE

APPROVAL

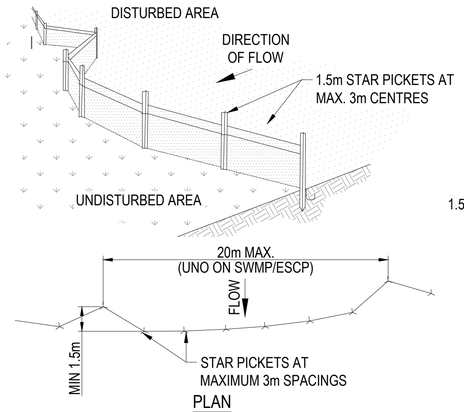
| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | N/A | A1 | AUG 2022 |

DESCRIPTION

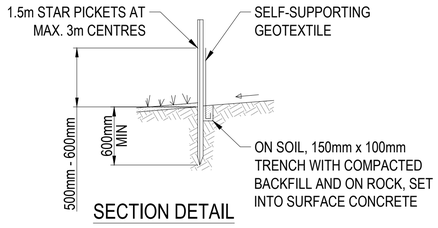
SOIL EROSION AND SEDIMENT CONTROL NOTES

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 03-201 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1




PLAN



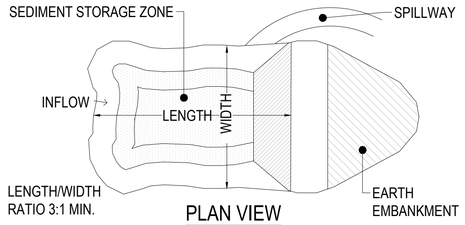

SECTION DETAIL

## CONSTRUCTION NOTES

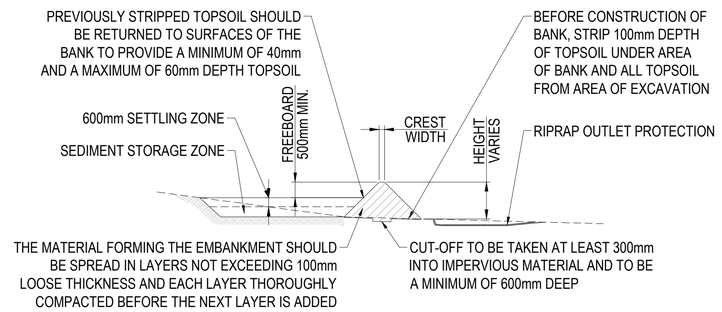
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 3 METRES APART.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

# SEDIMENT CONTROL FENCE

N.T.S.




PLAN VIEW




SECTION

## SEDIMENT BASIN (TYPICAL) CROSS SECTION

N.T.S.

## SEDIMENT BASIN VOLUME

SOIL TYPE: F
BASIN VOLUME = SETTLING ZONE VOLUME + SEDIMENT STORAGE ZONE VOLUME

THE SETTLING ZONE VOLUME FOR TYPE D SOILS IS CALCULATED TO PROVIDE CAPACITY TO CONTAIN ALL RUNOFF EXPECTED FROM UP TO THE 80th PERCENTILE RAINFALL EVENT. THE SETTLING ZONE VOLUME (V) CAN BE DETERMINED BY THE FOLLOWING EQUATION:

$V = 10 \times Cv \times A \times R$ 80th ile, 5 day($m^3$)

WHERE:

| | | DESCRIPTION | VALUE: |
|---|---|---|---|
| 10 | = | A UNIT CONVERSION FACTOR | |
| Cv | = | THE VOLUMETRIC RUNOFF COEFFICIENT, DEFINED AS THAT PORTION OF RAINFALL THAT RUNS OF AS STORMWATER OVER THE 5-DAY PERIOD | 10<br>0.35 |
| R | = | IS THE 5-DAY TOTAL RAINFALL DEPTH (mm) WHICH IS NOT EXCEEDED IN 80% OF THE RAINFALL EVENTS | 21.6 (ADOPT FIGURE) |
| A | = | AREA OF CATCHMENT IN HECTARES (ha) | 0.92 |

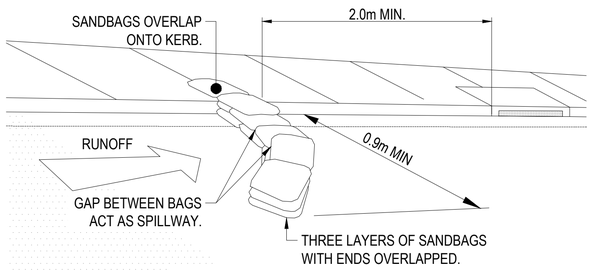
$V = 10 \times Cv \times A \times R$ 80th ile, 5 day
$V = 10 \times 0.35 \times 0.92 \times 21.6$
$V = 70m^3$

TOTAL BASIN VOLUME = SETTLING ZONE VOL. + SEDIMENT STORAGE ZONE VOL.

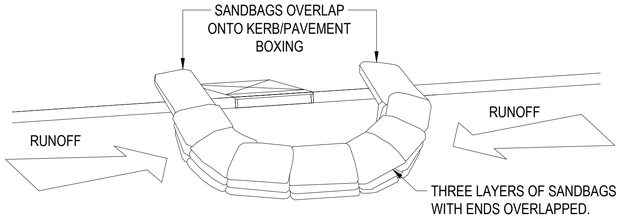
THE SEDIMENT STORAGE ZONE VOLUME SHALL BE CALCULATED AS 50% OF STORAGE VOLUME

TOTAL BASIN VOLUME = $70m^3 + 35m^3$
TOTAL BASIN VOLUME = $105m^3$

- FLOCCULATION SHOULD BE RPOVIDED TO BLUE BOOK (LANDCOM 2004)
- PUMP OUT SEDIMENT IN LINE WITH RECOMMENDATIONS OF BLUE BOOK (LANDCOM 2004)




SANDBAG SEDIMENT TRAP - AT ON GRADE PIT



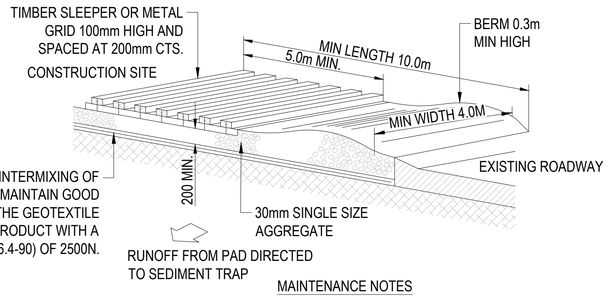

SANDBAG SEDIMENT TRAP - AT KERB SAG PIT

# SANDBAG SEDIMENT TRAP

N.T.S.

## NOTE

ENSURE THAT ALL UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT




GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. THE GEOTEXTILE MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500N.

CONSTRUCTION NOTES

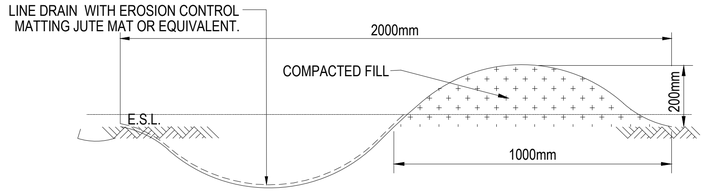
1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

MAINTENANCE NOTES

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

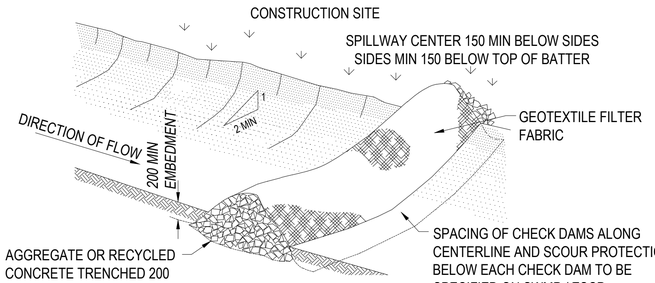
# TEMPORARY STABILISED CONSTRUCTION EXIT

N.T.S.

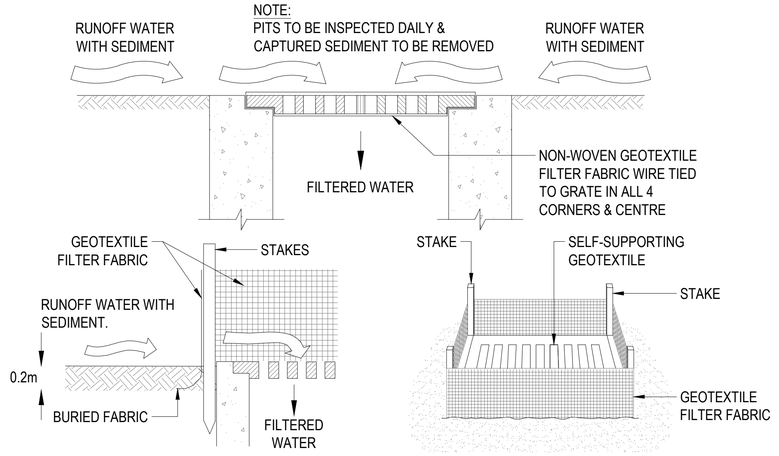



## CUT-OFF DRAIN - 2.0m WIDE

N.T.S.




## CHECK DAM - ROCK




# GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP

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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST COWRA NSW

PHASE

APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | AS SHOWN | A1 | AUG 2022 |

DESCRIPTION

## SOIL EROSION AND SEDIMENT CONTROL DETAILS

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 03-301 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

ASSUMPTIONS

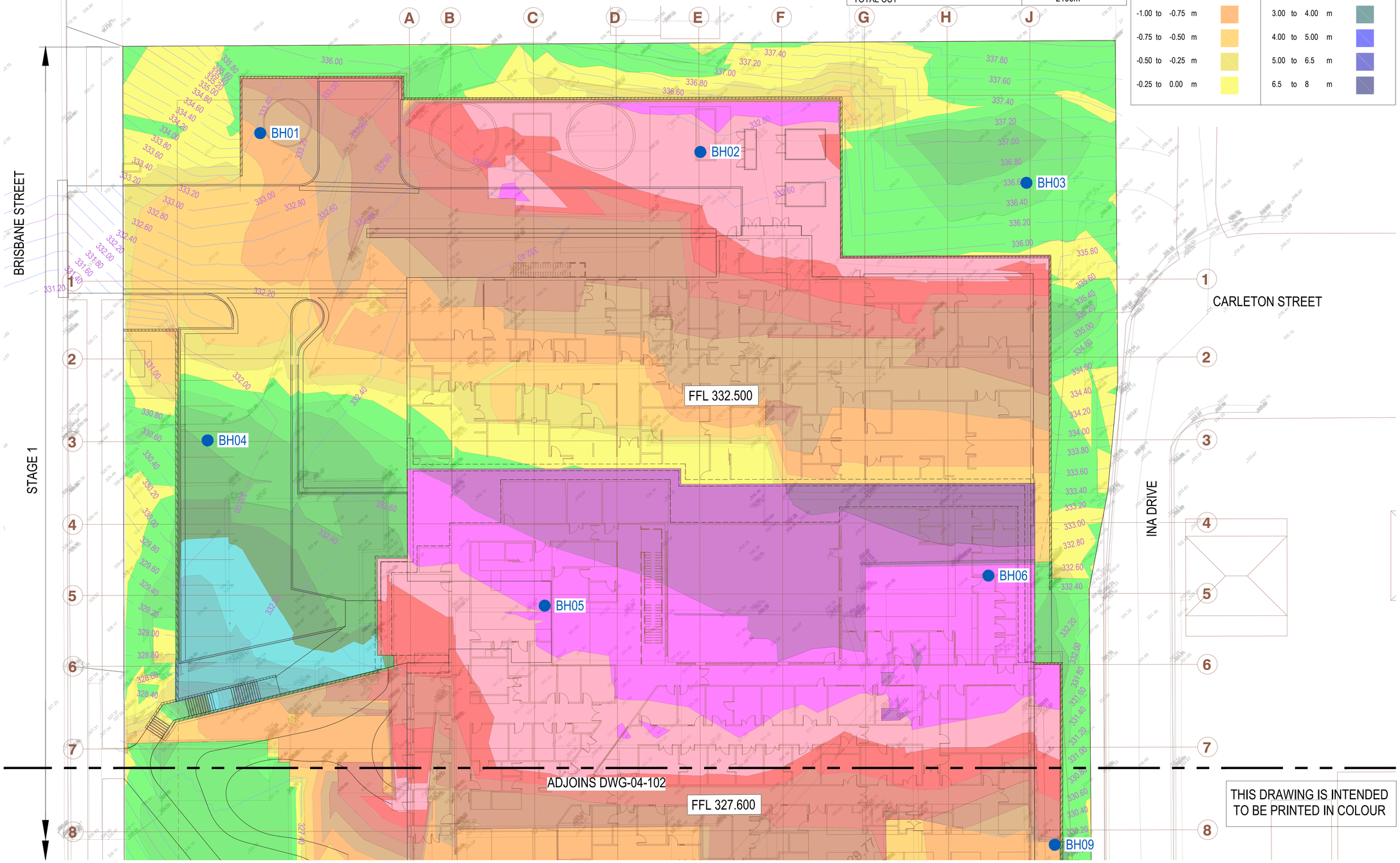
EARTHWORKS CUT AND FILL NOTES:

1. A NOMINAL 150mm DEPTH ALLOWANCE FOR STRIP TOPSOIL HAS BEEN INCLUDED IN THE CUT AND FILL ASSESSMENT.
2. BULKING AND COMPACTION FACTORS HAVE NOT BEEN APPLIED TO THE CUT AND FILL QUANTITIES.
3. A BOXING OUT OF 220mm FOR THE BUILDING FLOOR SLABS HAS BEEN ALLOWED FOR IN THE CUT AND FILL CALCULATIONS.
4. A BOXING OUT OF 330mm FOR CONCRETE ROAD PAVEMENTS HAS BEEN ALLOWED FOR IN THE CUT AND FILL CALCULATIONS.
5. A BOXING OUT OF 330mm HAS BEEN ALLOWED FOR ALL ASPHALT ROAD PAVEMENT IN THE CUT AND FILL CALCULATIONS.
6. A BOXING OUT OF 175mm HAS BEEN ALLOWED FOR ALL CONCRETE FOOTPATH PAVEMENTS IN THE CUT AND FILL CALCULATIONS.
7. A BOXING OUT OF 150mm HAS BEEN ALLOWED FOR ALL LANDSCAPED AREAS IN THE CUT AND FILL CALCULATIONS.
8. DETAILED BULKING AND CUT / FILL QUANTITIES FOR FOOTINGS, TRENCHING AND THE LIKE HAS NOT BEEN INCLUDED IN THE CUT AND FILL ASSESSMENT.
9. NO ALLOWANCE FOR TOPSOIL AND FRIABLE SOIL LAYERS HAS BEEN ALLOWED FOR IN LANDSCAPED AREAS. REUSE OF STRIPPED TOPSOIL HAS BEEN ASSUMED.
10. ALL TOPSOIL SHALL BE RETAINED ON THE DEVELOPMENT SITE AND UTILISED EFFECTIVELY TO ENCOURAGE APPROPRIATE RE-VEGETATION.

| **CUT / FILL QUANTITIES** - OVERALL | |
|---|---|
| TOTAL CUT | -18800m³ |
| TOTAL FILL | 3200m³ |
| TOTAL BALANCE (EXCLUDING STRIPPED SURFACE) | -15600m³ (CUT) |
| **CUT / FILL QUANTITIES** - STAGE 1 | |
| TOTAL CUT | -16500m³ |
| TOTAL FILL | 1300m³ |
| TOTAL BALANCE | -15200m³ (CUT) |
| **CUT / FILL QUANTITIES** - STAGE 2 | |
| TOTAL CUT | -2300m³ |
| TOTAL FILL | 1900m³ |
| TOTAL BALANCE | 400m³ (CUT) |
| **CUT QUANTITIES - 150mm STRIPPED SURFACE** | |
| TOTAL CUT | -2100m³ |

## LEGEND

| CUT | | FILL | |
|---|---|---|---|
| -8 to -6.5 m | | 0.00 to 0.25 m | |
| -6.5 to -5 m | | 0.25 to 0.5 m | |
| -5.00 to -4.00 m | | 0.50 to 0.75 m | |
| -4.00 to -3.00 m | | 0.75 to 1.00 m | |
| -3.00 to -2.50 m | | 1.00 to 1.50 m | |
| -2.50 to -2.00 m | | 1.50 to 2.00 m | |
| -2.00 to -1.50 m | | 2.00 to 2.50 m | |
| -1.50 to -1.00 m | | 2.50 to 3.00 m | |
| -1.00 to -0.75 m | | 3.00 to 4.00 m | |
| -0.75 to -0.50 m | | 4.00 to 5.00 m | |
| -0.50 to -0.25 m | | 5.00 to 6.5 m | |
| -0.25 to 0.00 m | | 6.5 to 8 m | |




SCALE 1:200 @ A1
SCALE 1:400 @ A3
0 2 4 8 12 16 20 metres

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| P1 | 21.09.22 | ISSUE FOR COORDINATION | NP |
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| JK | 1:200 | A1 | AUG 2022 |

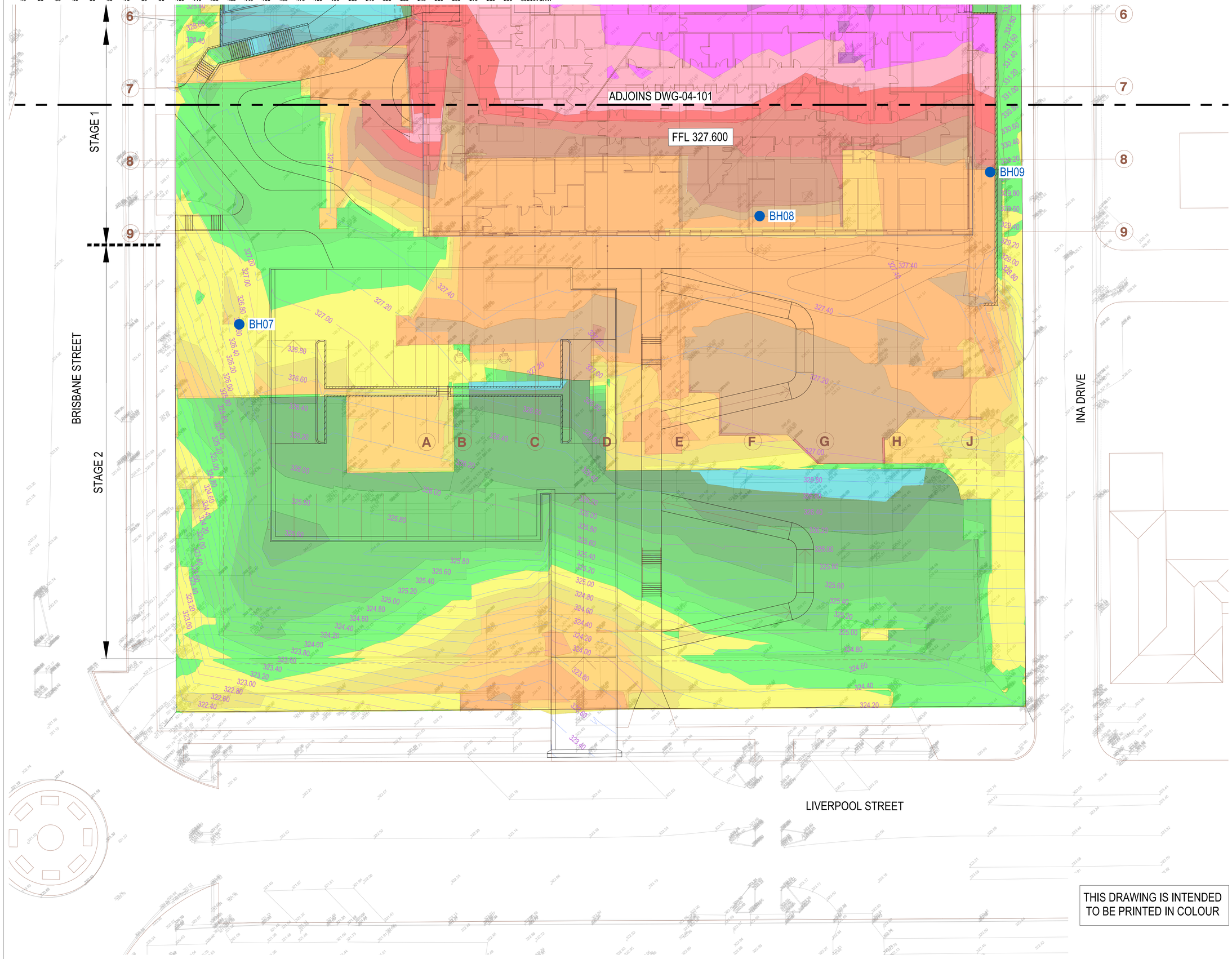
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DESCRIPTION

# BULK EARTHWORKS PLAN SHEET 1

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 04-101 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1




SCALE 1:200 @ A1
SCALE 1:400 @ A3
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ISSUE DATE SUBJECT VALID'N.

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DESCRIPTION

# BULK EARTHWORKS PLAN SHEET 2

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10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

BRISBANE STREET

CARLETON STREET

INA DRIVE

MATCH SMOOTHLY INTO EXISTING

POSSIBLE LOWERING AND/OR PROTECTION OF EXISTING SERVICES PENDING DETAILED DESIGN

INSTALL NEW GRATED TRENCH DRAIN AT DRIVEWAY ACCESS

MATCH SMOOTHLY INTO EXISTING

EXISTING ELECTRICAL POLE TO BE PROTECTED AND RETAINED. PROVIDE MIN 1.0m CLEARANCE TO PROPOSED CONSTRUCTION WORKS

CONSTRUCT KERB AND GUTTER. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-601

INSTALL WHEELSTOPS. TYPICAL

PROPOSED RETAINING WALL. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS

ACCESSIBLE PARKING AND SHARED BAY IN ACCORDANCE WITH AS2890.6

CONSTRUCT NEW FOOTPATH. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-601

CONSTRUCT KERB ONLY. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-601

PROPOSED RETAINING WALL. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS

CONSTRUCT 900 WIDE GAP IN KERB TO ALLOW OVERLAND FLOW

CONSTRUCT KERB ONLY. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-601

CONSTRUCT KERB AND GUTTER. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-601

INSTALL BOLLARD. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-602

PROPOSED RETAINING WALL. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS

FFL 332.500

INDICATIVE BASEMENT WALL BELOW

ADJOINS DWG-05-102

FFL 327.600

PROPOSED RETAINING WALL. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS

REGRADE VERGE TO MATCH NEATLY INTO NEW LANDSCAPING WORKS

CONSTRUCT NEW FOOTPATH. REFER DETAIL ON DWG. 130734-ACOR-CI-DWG-06-601

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

SCALE 1:200 @ A1
SCALE 1:400 @ A3
0 2 4 8 12 16 20 metres

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NOTES

AUTHORISED FOR ISSUE DIRECTOR

SIGN OFF DATE

| ISSUE | DATE | SUBJECT | VALID'N. |
|---|---|---|---|
| P1 | 21.09.22 | ISSUE FOR COORDINATION | NP |
| P2 | 04.10.22 | ISSUE FOR COORDINATION | CR |
| A | 18.11.22 | DRAFT SCHEMATIC DESIGN | NP |
| B | 15.12.22 | ISSUE FOR MAIN WORKS REF | NP |

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ABN: 48 942 921 969
Nominated Architects:
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Daniel Beekwilder 6192
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Chippendale NSW 2008
Sydney Australia
djrd.com.au

PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE

APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | 1:200 | A1 | AUG 2022 |

DESCRIPTION

# CIVIL WORKS PLAN SHEET 1

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 05-101 | B |

ADJOINS DWG-05-101

FFL 327.600

STAGE 1 WORKS

STAGE 2 WORKS

PROPOSED RETAINING WALL.
REFER TO STRUCTURAL ENGINEERS
DRAWINGS FOR DETAILS

CONSTRUCT NEW FOOTPATH.
REFER DETAIL ON DWG.
130734-ACOR-CI-DWG-06-601

INSTALL BOLLARD.
REFER DETAIL ON DWG.
130734-ACOR-CI-DWG-06-602

TRANSITION FROM KERB ONLY TO
FLUSH KERB OVER WIDTH OF CARPARK

TRANSITION FROM KERB
ONLY TO FLUSH KERB

CONSTRUCT KERB AND GUTTER.
REFER DETAIL ON DWG.
130734-ACOR-CI-DWG-06-601

PROPOSED RETAINING WALL.
MAXIMUM HEIGHT 550mm

CONSTRUCT KERB ONLY.
REFER DETAIL ON DWG.
130734-ACOR-CI-DWG-06-601

ACCESSIBLE PARKING AND SHARED
BAY IN ACCORDANCE WITH AS2890.6

1 IN 4

1 IN 8 MAXIMUM RAMP

1 IN 5

INSTALL WHEELSTOPS.
TYPICAL

CONSTRUCT KERB AND GUTTER.
REFER DETAIL ON DWG.
130734-ACOR-CI-DWG-06-601

MATCH SMOOTHLY
INTO EXISTING

CONSTRUCT NEW DRIVEWAY
LAYBACK. REFER DETAIL ON DWG.
130734-ACOR-CI-DWG-06-602

EXISTING PEDESTRIAN
CROSSING TO BE RETAINED

BRISBANE STREET

LIVERPOOL STREET

INA DRIVE

SCALE 1:200 @ A1
SCALE 1:400 @ A3

0 2 4 8 12 16 20 metres

THIS DRAWING IS INTENDED
TO BE PRINTED IN COLOUR

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CLIENT

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PROJECT MANAGER

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Nominated Architects:
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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE

APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | 1:200 | A1 | AUG 2022 |

DESCRIPTION

# CIVIL WORKS PLAN SHEET 2

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 05-102 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

BRISBANE STREET

CARLETON STREET

INA DRIVE

SWALE DRAIN TO DISCHARGE OVERLAND FLOW TO BRISBANE STREET

200 WIDE GRATED DRAIN WITH CLASS 'D' GRATE

USIL 330.97
Ø300 uPVC
1.0 %
7.78 m
DSIL330.89

USIL 331.62
Ø150 uPVC
3.8 %
5.12 m
DSIL 331.43

USIL 331.29
Ø225 uPVC
1.2 %
15.00 m
DSIL 331.11

USIL 331.52
Ø225 uPVC
1.0 %
19.65 m
DSIL 330.32

CUT OFF SWALE DRAIN AT TOP OF RETAINING WALL TO CAPTURE OVERLAND FLOW FROM NEIGHBOURING PROPERTY

USIL 331.77
Ø225 uPVC
2.4 %
9.29 m
DSIL 331.55

TYPE E DISH DRAIN PIT. 600 x 600 CLASS 'D' V-GRATE

CL332.40

CL332.30

CL332.37

CL332.45

CL332.65

SWALE DRAIN TO DISCHARGE OVERLAND FLOW TO INA DRIVE

TYPE A SURFACE INLET PIT. 450 x 450 CLASS 'B' GRATE

USIL 331.40
Ø150 uPVC
1.0 %
9.20 m
DSIL 331.30

USIL 330.85
Ø300 uPVC
1.0 %
12.77 m
DSIL 330.71

TYPE E DISH DRAIN PIT. 900 x 900 CLASS 'D' V-GRATE

CL332.15

CL332.25

CL332.35

USIL331.08
Ø300 uPVC
1.0 %
8.15 m
DSIL331.00

TYPE E DISH DRAIN PIT. 600 x 900 CLASS 'D' V-GRATE

TYPE E DISH DRAIN PIT. 600 x 600 CLASS 'D' V-GRATE

900 x 900 CLASS D 'V' GRATE

TYPE A SURFACE INLET PIT.900 x 900 CLASS 'B' GRATE

USIL 329.60
Ø300 uPVC
2.0 %
5.10 m
DSIL 329.50

CL331.60

CL331.80

USIL331.16
Ø150 uPVC
1.0 %
6.22 m
DSIL331.10

FFL 332.500

TYPE A SURFACE INLET PIT. 600 x 600 CLASS 'D' GRATE

CONNECT NEW STORMWATER DRAINAGE TO EXISTING COUNCIL STORMWATER PIT IL329.50 (ASSUMED TBC)

TYPE "C" KERB INLET PIT WITH 1.2m LINTEL CLASS 'D' GRATE

USIL 330.40
Ø300 uPVC
7.0 %
5.0 m
DSIL 330.05

USIL 330.65
Ø225 RCP
1.0 %
22.84 m
DSIL 330.44

TYPE A SURFACE INLET PIT. 600 x 600 CLASS 'D' GRATE

CL332.05

RWO

USIL 331.95
Ø150 uPVC
1.0 %
31.48 m
DSIL 331.63

USIL 331.60
Ø150 uPVC
1.0 %
6.00 m
DSIL 331.55

TYPE A SURFACE INLET PIT. 450 x 450 CLASS 'B' GRATE

150 x 75 x 4 GALVANISED RHS 1.0% MIN.

CONNECT NEW STORMWATER DRAINAGE TO EXISTING COUNCIL STORMWATER KERB I.L.331.50

ADJOINS DWG-08-102

FFL 327.600

STAGE 1 WORKS

STAGE 2 WORKS

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

SCALE 1:200 @ A1
SCALE 1:400 @ A3
0 2 4 8 12 16 20 metres

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ISSUE DATE SUBJECT VALID'N.

CLIENT

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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE

APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | AS SHOWN | A1 | AUG 2022 |

DESCRIPTION

## STORMWATER MANAGEMENT PLAN - SHEET 1

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 08-101 | B |

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A1

ADJOINS DWG-08-101

FFL 327.600

STAGE 1 WORKS

STAGE 2 WORKS

BRISBANE STREET

LIVERPOOL STREET

INA

USIL 326.85
Ø150 uPVC
1.0 %
6.48 m
DSIL 326.78

CONSTRUCT NEW TYPE "C" KERB INLET PIT TO COUNCIL DETAIL

CL325.25

CL326.10

TYPE A SURFACE INLET PIT.
450 x 450 CLASS 'B' GRATE

TYPE A SURFACE INLET PIT.
900 x 900 CLASS 'B' GRATE

CL327.35

RWT

PROPOSED 30kL EFFECTIVE STORAGE RAINWATER TANK TO HYDRAULIC ENGINEER'S DETAIL. ROOF DRAINAGE TO DISCHARGE TO TANK TO HYDRAULIC ENGINEER'S DETAIL. OVERFLOW TO CONNECT TO STORMWATER SYSTEM AS SHOWN

Ø375 RCP'2' @ MIN 1.0%

CL327.22

CL327.35

TYPE A SURFACE INLET PIT.
600 x 600 CLASS 'D' GRATE

USIL 324.42
Ø375RCP'2'
1.0 %
5.23 m
DSIL 324.37

USIL 326.19
Ø375 RCP
10.6%
7.29 m
DSIL 325.42

USIL 326.32
Ø375 RCP
1.0 %
9.16 m
DSIL 326.22

TYPE A SURFACE INLET PIT. 900 x 900 CLASS 'B' GRATE

USIL 325.50
Ø150 uPVC
1.0 %
13.15 m
DSIL 325.47

USIL 325.72
Ø150 uPVC
1.0 %
11.80 m
DSIL 325.60

TYPE A SURFACE INLET PIT.900 x 900 CLASS 'B' GRATE

900 x 900 CLASS 'D' GRATE

CL326.70

CL326.80

CL327.15

CL327.15

CL327.20

200 WIDE GRATED DRAIN WITH CLASS 'D' GRATE

200 WIDE GRATED DRAIN WITH CLASS 'D' GRATE

USIL 326.00
Ø150 uPVC
8.6 %
11.00 m
DSIL 325.05

USIL 326.25
Ø150 uPVC
4.0 %
11.00 m
DSIL 325.80

TYPE A SURFACE INLET PIT.
600 x 600 CLASS 'D' GRATE

CL326.60

200 WIDE GRATED DRAIN WITH CLASS 'D' GRATE

USIL 325.12
Ø225 uPVC
16.7%
17.20 m
DSIL 324.95

CL326.12

TYPE A SURFACE INLET PIT.
600 x 600 CLASS 'D' GRATE

USIL 325.80
Ø150 uPVC
4.3 %
5.80 m
DSIL 325.55

CL326.30

USIL 324.60
Ø300 uPVC
8.0 %
14.83 m
DSIL 322.10

TYPE "C" KERB INLET PIT WITH 1.2m LINTEL CLASS 'D' GRATE

CL325.52

CL325.60

TYPE A SURFACE INLET PIT.
600 x 900 CLASS 'D' GRATE

200 WIDE GRATED DRAIN WITH CLASS 'D' GRATE

USIL 325.52
Ø150 uPVC
2.9 %
26.10 m
DSIL 324.75

USIL 321.25
Ø300 uPVC
1.0 %
5.00 m
DSIL 321.20

KERB INVERT 321.80

CL322.90

USIL 324.70
Ø300 uPVC
1.0 %
5.75 m
DSIL 324.64

CL323.66

PROPOSED STORMWATER JUNCTION PIT TO CONNECT STAGE 2 STORMATER SYSTEM TO COUNCIL EXISTING STORMWATER PIPE. EXISTING STORMWATER PIPE INVERT LEVEL AND LOCATION TO BE CONFIRMED PRIOR TO COMMENCEMENT OF ANY WORK

CONNECT NEW STORMWATER DRAINAGE TO KERB I.L.323.05

USIL 323.16
150x75 RHS
1.0 %
6.32 m
DSIL 323.05 EXIST KERB INVERT

CL327.40

TYPE A SURFACE INLET PIT.
450 x 450 CLASS 'B' GRATE

USIL 326.60
Ø150 uPVC
1.0 %
24.46 m
DSIL 326.36

CL327.40

TYPE A SURFACE INLET PIT.
450 x 450 CLASS 'B' GRATE

USIL 326.33
Ø150 uPVC
1.0 %
9.72 m
DSIL 326.23

CL327.10

TYPE A SURFACE INLET PIT.
450 x 450 CLASS 'B' GRATE

USIL 326.20
Ø150 uPVC
1.0 %
25.00 m
DSIL 325.95

TYPE A SURFACE INLET PIT.
600 x 600 CLASS 'B' GRATE

USIL 325.65
150x75 RHS
1.0 %
5.00 m
DSIL 325.60

CL326.00

CONNECT NEW STORMWATER DRAINAGE TO EXISTING COUNCIL STORMWATER KERB I.L. 325.60

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SCALE 1:200 @ A1
SCALE 1:400 @ A3
0 2 4 8 12 16 20 metres

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CLIENT

NSW GOVERNMENT Health Infrastructure

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PROJECT

# COWRA HOSPITAL REDEVELOPMENT

CNR LIVERPOOL AND BRISBANE ST
COWRA NSW

PHASE
APPROVAL

| DRAWN | SCALE | SHEET SIZE | ORIGIN DATE |
|---|---|---|---|
| JK | AS SHOWN | A1 | AUG 2022 |

DESCRIPTION

# STORMWATER MANAGEMENT PLAN - SHEET 2

| PROJECT No | DRAWING No | REVISION |
|---|---|---|
| 130734 | 08-102 | B |

# Appendix C. Copy of Detail Survey

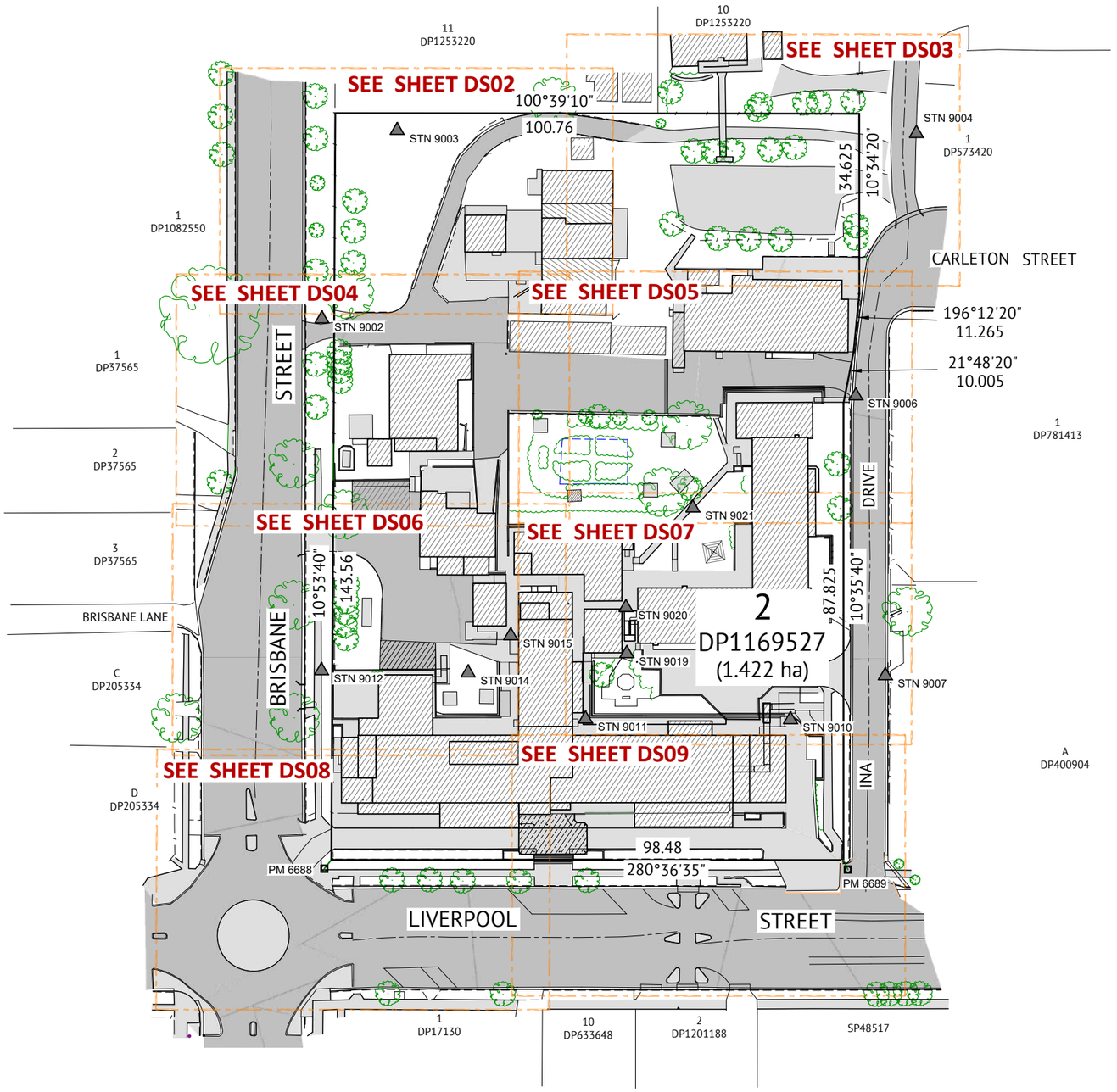
NOTES:

1. THIS PLAN IS PREPARED FROM A FIELD SURVEY FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. ALL UNDERGROUND SERVICES SHOWN ARE BASED ON A COMBINATION OF PREVIOUS COUNCIL RECORDS, VERBAL INSTRUCTIONS AND SURFACE INDICATORS LOCATED AT TIME OF SURVEY.
3. CONTOUR INTERVAL 0.25m.
4. THESE NOTES ARE AN INTEGRAL PART OF THIS PLAN.

DIAL BEFORE YOU DIG www.1100.com.au

## LEGEND:

- ROAD CENTRELINE
- FENCE
- BOTTOM OF BANK
- TOP OF BANK
- OH — OVERHEAD ELECTRICITY LINES
- UG — UNDERGROUND ELECTRICITY LINES
- G — GAS MAIN
- T — TELECOMMUNICATIONS
- D — STORMWATER DRAINAGE
- S — SEWER MAIN
- W — WATER MAIN
- PP — POWER POLE
- LP — LIGHT POLE
- PPL — POWER POLE WITH LIGHT
- EP — ELECTRICITY PIT/PILLAR
- TP — TELECOMMUNICATIONS PIT
- MH — SEWER MANHOLE
- S — SEWER INSPECTION PIT
- FH — FIRE HYDRANT
- SV — STOP VALVE
- WMR — WATER METER
- TAP — TAP
- GV — GAS VALVE
- TREE
- EDGE OF VEGETATION
- FLOOR LEVEL
- BENCH MARK
- GATE
- STATION




| | EASTING | NORTHING | HEIGHT | |
|---|---|---|---|---|
| PM6688 | 656647.239 | 6255108.844 | 323.916 | STEEL PIN IN COVER BOX |
| PM6689 | 656548.311 | 6255127.516 | 321.75 | STEEL PIN IN COVER BOX |
| 9002 | 656567.373 | 6255231.742 | 330.066 | DUMPY PEG |
| 9003 | 656588.114 | 6255264.269 | 335.455 | DUMPY PEG |
| 9004 | 656686.012 | 6255245.328 | 337.877 | NAIL IN BIT |
| 9006 | 656665.296 | 6255198.153 | 332.413 | NAIL IN BIT |
| 9007 | 656661.043 | 6255144.09 | 327.391 | NAIL IN BIT |
| 9010 | 656641.631 | 6255138.991 | 324.998 | NAIL IN CONC. |
| 9011 | 656603.14 | 6255146.511 | 324.811 | NAIL IN CONC. |
| 9012 | 656554.636 | 6255164.972 | 326.065 | NAIL IN CONC. |
| 9014 | 656582.359 | 6255159.253 | 326.848 | NAIL IN CONC. |
| 9015 | 656591.65 | 6255164.887 | 328.682 | DUMPY PEG |
| 9019 | 656613.043 | 6255157.278 | 327.937 | NAIL IN PAVER |
| 9020 | 656614.504 | 6255166.017 | 328.463 | NAIL IN CONC. |
| 9021 | 656626.473 | 6255179.943 | 330.035 | NAIL IN CONC. |

## ISSUED FOR INFORMATION

| DATE | REV | DESCRIPTION | | |
|---|---|---|---|---|
| 20/01/2022 | A | ISSUED FOR INFORMATION | GT | SB |

REVISIONS

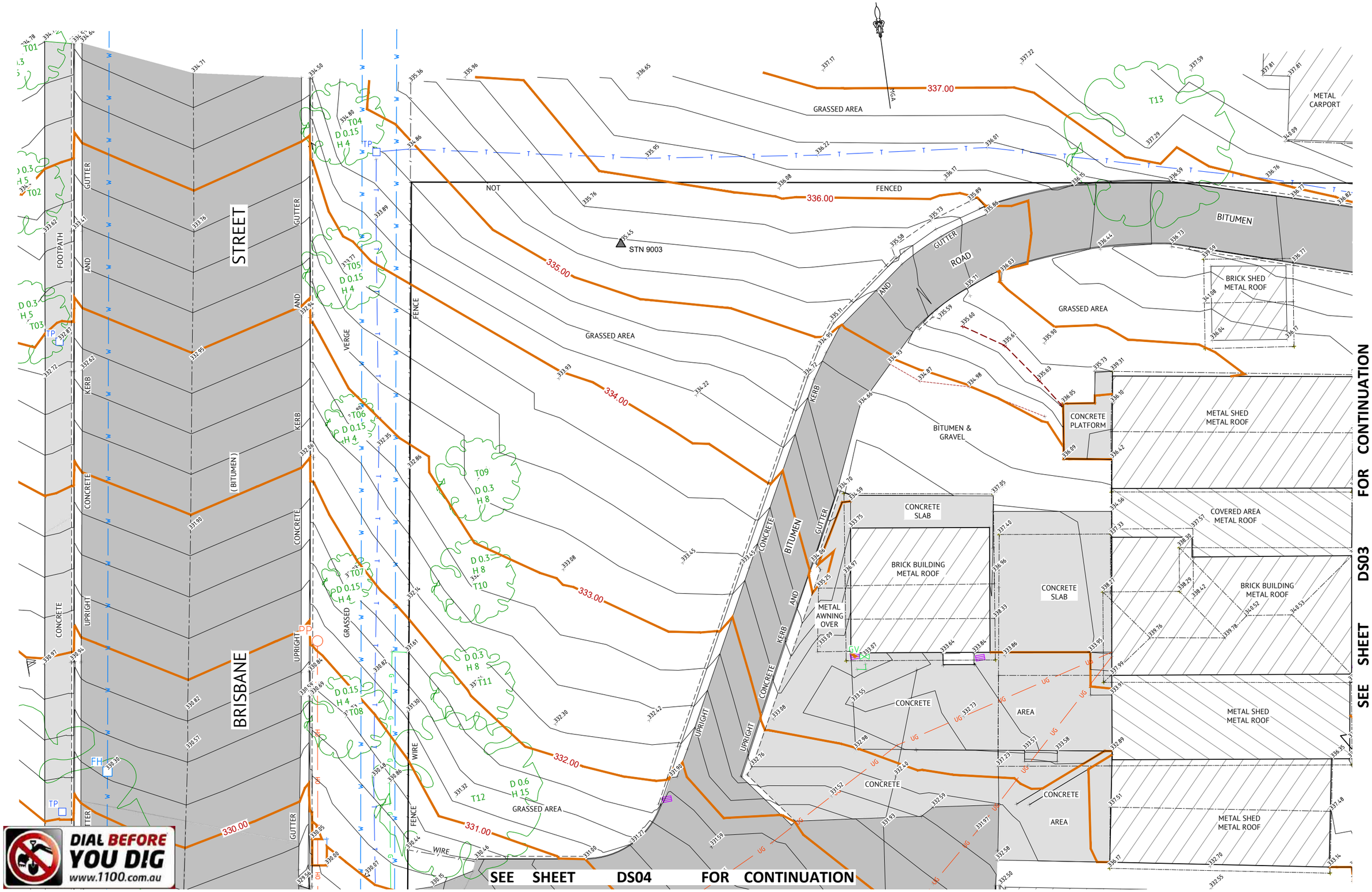

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154 PEISLEY STREET
ORANGE, NSW 2800
PH: (02) 6393 5000
WEB: www.premise.com.au


DESIGNED: -
CHECKED: -
PROJECT MANAGER: SB
REGISTERED SURVEYOR: SAM BYRNES

SCALE: 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: NSW HEALTH INFRASTRUCTURE
PROJECT: COWRA HEALTH SERVICE REDEVELOPMENT
LOCATION: LIVERPOOL STREET, COWRA
SHEET TITLE: GROUND LEVEL SITE PLAN

JOB CODE: 222022
SHEET NUMBER: DS01
REV: A




## ISSUED FOR INFORMATION

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
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REVISIONS


Premise

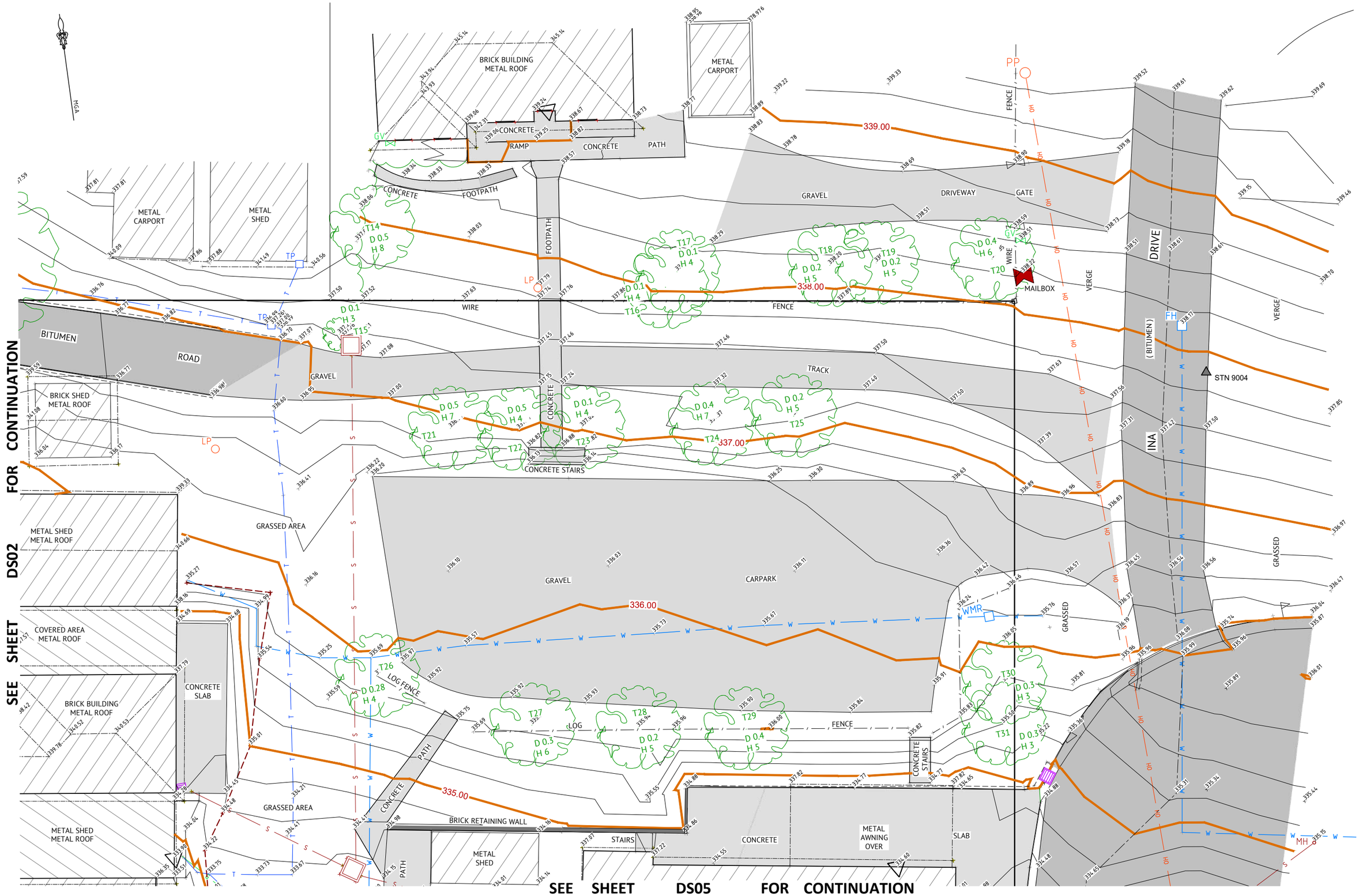
ORANGE OFFICE
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| | |
|---|---|
| DESIGNED | - |
| CHECKED | - |
| PROJECT MANAGER | SB |
| REGISTERED SURVEYOR | SAM BYRNES |

SCALE
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

| | |
|---|---|
| CLIENT | NSW HEALTH INFRASTRUCTURE |
| PROJECT | COWRA HEALTH SERVICE REDEVELOPMENT |
| LOCATION | LIVERPOOL STREET, COWRA |
| SHEET TITLE | CONTOUR & DETAIL SURVEY PLAN |

| JOB CODE | |
|---|---|
| 222022 | |
| SHEET NUMBER | REV |
| DS02 | A |




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CHECKED: -
PROJECT MANAGER: SB
REGISTERED SURVEYOR: SAM BYRNES

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SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: NSW HEALTH INFRASTRUCTURE
PROJECT: COWRA HEALTH SERVICE REDEVELOPMENT
LOCATION: LIVERPOOL STREET, COWRA
SHEET TITLE: CONTOUR & DETAIL SURVEY PLAN

JOB CODE: 222022
SHEET NUMBER: DS03
REV: A

SEE SHEET DS02 FOR CONTINUATION

SEE SHEET DS05 FOR CONTINUATION

SEE SHEET DS06 FOR CONTINUATION

STREET

BRISBANE

FOOTPATH AND KERB AND GUTTER

CONCRETE

(BITUMEN)

UPRIGHT

GRASSED AREA

FENCE

WIRE

VERGE

T12 D 0.6 H 15

T32 D 0.8 H 8

T37 D 0.2 H 3

T38 D 0.2 H 3

T34 D 0.15 H 4

T39 D 0.2 H 3

T40 D 0.2 H 3

T35 D 0.15 H 4

T36 D 0.6 H 10

T33 D 0.15 H 4

T41 D 0.6 H 10

T42 D 0.1 H 3

STN 9002

STN 9016

TP

FH

PP

EP

SUB

330.00

331.00

332.00

329.00

327.00

BITUMEN

DRIVEWAY

CONCRETE RETAINING WALL

METAL CARPORT

BITUMEN ROAD

BRICK BUILDING METAL ROOF

CONCRETE SLAB

BRICK SUBSTATION

VERANDAH

CONC. PATH

GARDEN

BRICK RETAINING WALL

OPEN DRAIN PIT

CONCRETE RAMP

RAISED CONCRETE SLAB

BRICK BUILDING

METAL CARPORT

CARPARK

PICNIC TABLE

ROSE

GARDEN

AREA

RETAINING WALL

UPRIGHT

# ISSUED FOR INFORMATION

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 20/01/2022 | A | ISSUED FOR INFORMATION | GT | SB |

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WEB: www.premise.com.au


DESIGNED -
CHECKED -
PROJECT MANAGER SB
REGISTERED SURVEYOR SAM BYRNES

SCALE
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT NSW HEALTH INFRASTRUCTURE
PROJECT COWRA HEALTH SERVICE REDEVELOPMENT
LOCATION LIVERPOOL STREET, COWRA
SHEET TITLE CONTOUR & DETIAL SURVEY PLAN

JOB CODE 222022
SHEET NUMBER DS04
REV A

SEE SHEET DS03 FOR CONTINUATION

FOR CONTINUATION SEE SHEET DS04

SEE SHEET DS07 FOR CONTINUATION

METAL SHED METAL ROOF
CONCRETE
AREA
METAL SHED METAL ROOF
GRASSED AREA
334.00
PATH
METAL SHED
CONCRETE
STAIRS
CONCRETE
METAL AWNING OVER
SLAB
BRICK + FIBRO BUILDING METAL ROOF
333.00
METAL CARPORT
METAL CARPORT
BREEZEWAY
FIBRO
METAL RAMP
BITUMEN DRIVEWAY
DRIVE
MH
GUTTER
BITUMEN ROAD
332.00
CONCRETE DISH DRAIN
CONCRETE DRAIN
BRICK RETAINING WALL
CONCRETE DRAIN
PATH
STN 9006
UPRIGHT
CONCRETE
KERB AND GUTTER
T47
T42
T43
T44
T45
T46
T46A
T48
T49
T50
T51
D 0.1 H 3
D 0.2 H 4
D 0.4 H 10
D 0.2 H 5
D 0.2 H 5
D 0.7 H 10
D 0.2 H 6
D 0.6 H 8
D 0.1 H 6
PICNIC TABLE
PICNIC TABLE
PICNIC TABLE
PICNIC TABLE
GARDEN BED
BRICK BUILDING METAL ROOF
CONCRETE
VERGE
ROSE GARDENS
ROSE GARDENS
ROSE GARDENS
ROSE GARDENS
GARDEN
GARDEN
COVERED INGROUND SWIMMING POOL UNDER
GRASSED AREA
GRATED DRAIN
PATH
CONC.
STAIRS
PORCH
3 STOREY BRICK BUILDING TILED ROOF
(BALCONIES OVER)
GRASSED
(BITUMEN)
KERB
CONCRETE
UPRIGHT
FENCE
PICKET
WOODEN
INA
BRICK PUMP SHED
331.00
330.00
GARDEN
GARDEN
GRASSED AREA
CONCRETE
PATH
GRASSED AREA

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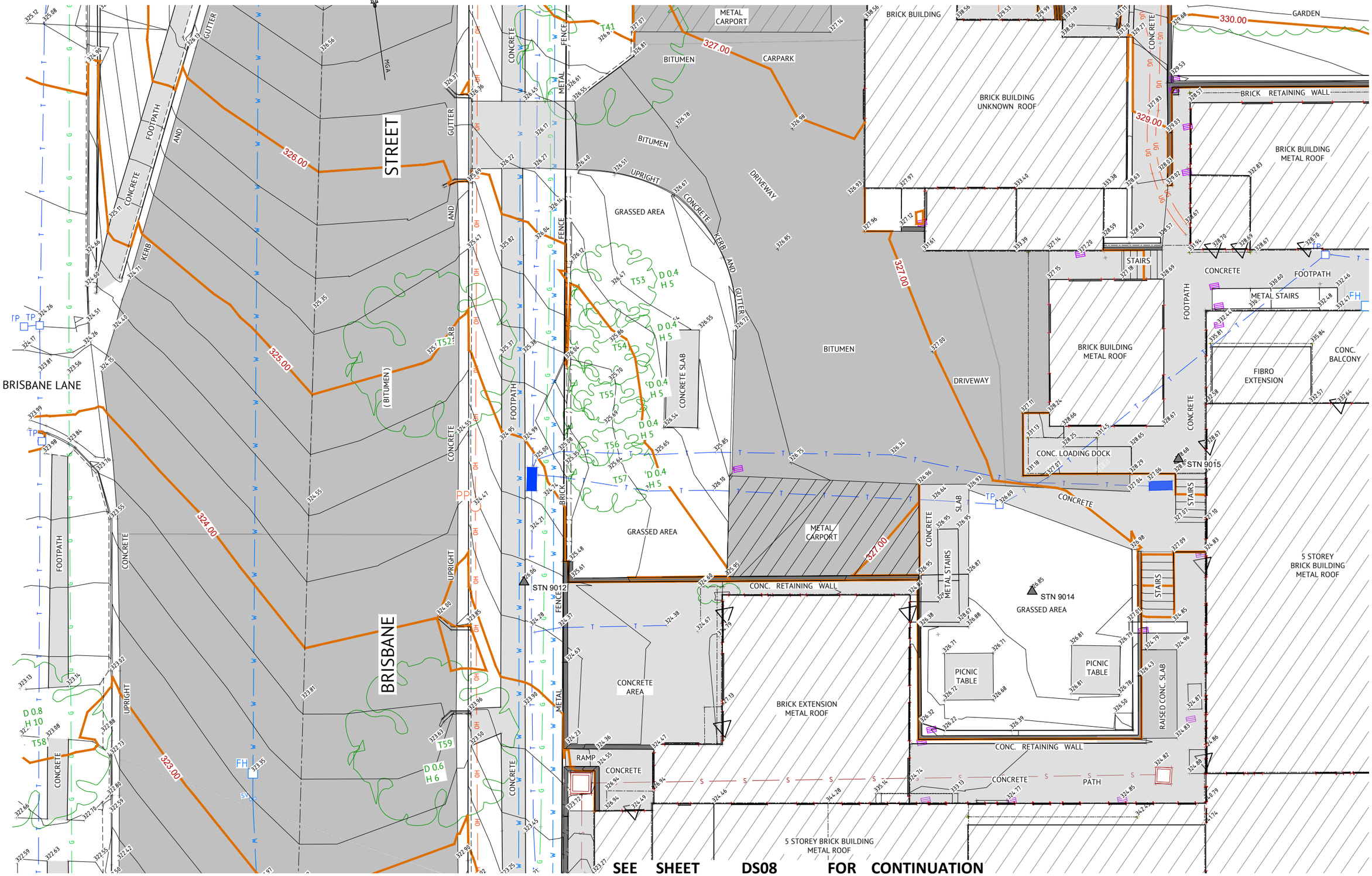
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SCALE 0 2 4 6m
SCALE 1:100 (A1)
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SHEET TITLE CONTOUR & DETAIL SURVEY PLAN

JOB CODE 222022
SHEET NUMBER DS05
REV A

SEE SHEET DS04 FOR CONTINUATION




SEE SHEET DS08 FOR CONTINUATION

SEE SHEET DS07 FOR CONTINUATION

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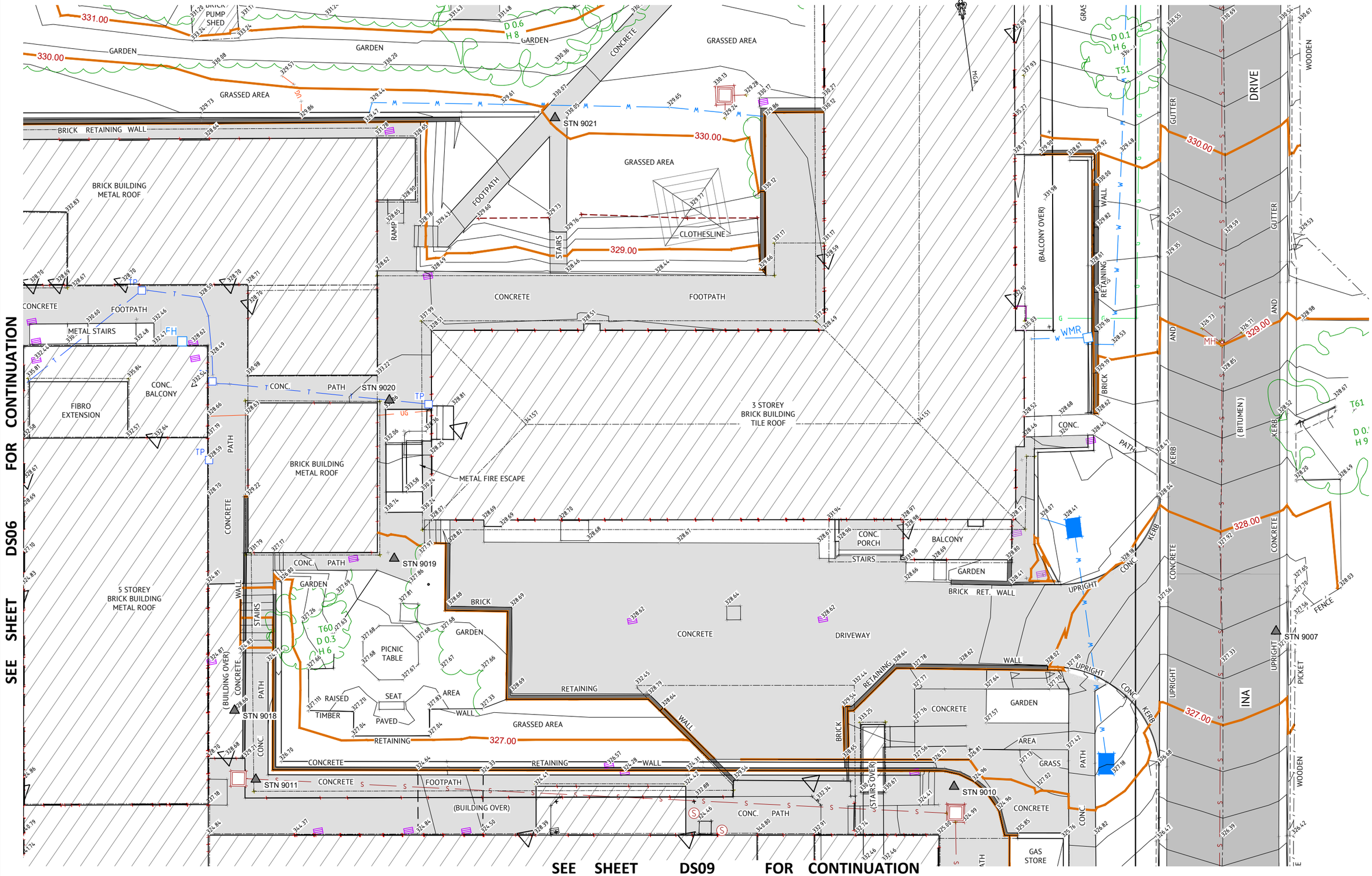
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PROJECT COWRA HEALTH SERVICE REDEVELOPMENT
LOCATION LIVERPOOL STREET, COWRA
SHEET TITLE CONTOUR & DETAIL SURVEY PLAN

JOB CODE 222022
SHEET NUMBER DS06
REV A

SEE SHEET DS05 FOR CONTINUATION

FOR CONTINUATION SEE SHEET DS06

SEE SHEET DS09 FOR CONTINUATION




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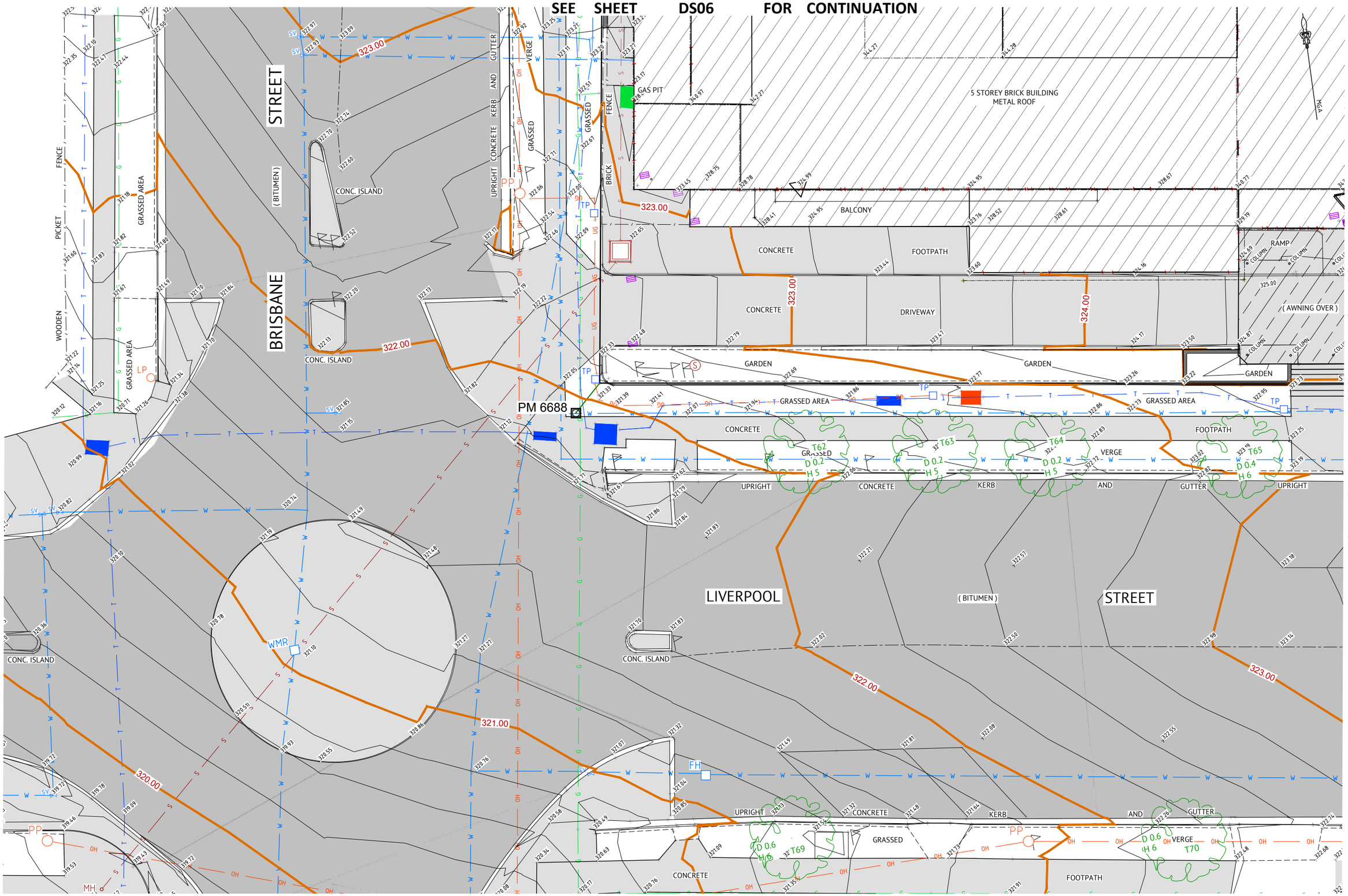
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SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT NSW HEALTH INFRASTRUCTURE
PROJECT COWRA HEALTH SERVICE REDEVELOPMENT
LOCATION LIVERPOOL STREET, COWRA
SHEET TITLE CONTOUR & DETAIL SURVEY PLAN

JOB CODE 222022
SHEET NUMBER DS07
REV A




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CLIENT NSW HEALTH INFRASTRUCTURE
PROJECT COWRA HEALTH SERVICE REDEVELOPMENT
LOCATION LIVERPOOL STREET, COWRA
SHEET TITLE CONTOUR & DETAIL SURVEY PLAN

JOB CODE 222022
SHEET NUMBER DS08
REV A

SEE SHEET DS07 FOR CONTINUATION

SEE SHEET DS08 FOR CONTINUATION

5 STOREY BRICK BUILDING METAL ROOF

CONC. PATH

BRICK RETAINING WALL

RAMP

COLUMN

( AWNING OVER )

CONCRETE

DRIVEWAY

GARDEN

STAIRS

GRASSED AREA

GRASSED VERGE

FOOTPATH

RAMP

CONCRETE

KERB AND GUTTER

UPRIGHT

LP

PP

TP

MH

PM 6689

GAS STORE

WALL

BRICK

FOOTPATH

GRASSED VERGE

GUTTER

DRIVE

FENCE

PICKET

WOODEN

KERB

( BITUMEN )

INA

LIVERPOOL STREET

326.00

325.00

324.00

323.00

T65 D 0.4 H 6

T66 D 0.3 H 6

D 0.1 H 6 T67

T71

T72

OH

W

S

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SCALE AS SHOWN

ORIGINAL SHEET SIZE A1

CLIENT NSW HEALTH INFRASTRUCTURE

PROJECT COWRA HEALTH SERVICE REDEVELOPMENT

LOCATION LIVERPOOL STREET, COWRA

SHEET TITLE CONTOUR & DETAIL SURVEY PLAN

JOB CODE 222022

SHEET NUMBER DS09

REV A

# Appendix D. Data Quality Indicators

DQIs for the project will be based on the field and laboratory considerations in NEPM Schedule B2 Appendix B, (NEPC 1999), which include:

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

The DQIs adopted for this assessment and checking of compliance is discussed in Tables below.

| Completeness | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| All critical locations will be sampled | Samples will be collected as per Section 7 | Yes | All critical samples analysed. | Samples will be analysed as per Section 7 | Yes |
| All samples collected | Samples will be collected from relevant media as per Section 7 | Yes | All analytes analysed according to sampling plan | Samples will be analysed as per Section 7 | Yes |
| Standard Operating Procedures (SOPs) appropriate and complied with | SMEC SOPs/Field instructions will be implemented | Yes | Appropriate methods and limits of reporting | Samples will be analysed by laboratories NATA accredited for the analyses to be performed and appropriate methods will be used. LORs will be less than or equal to the assessment criteria. | Yes |
| Experienced sampler | An experienced SMEC environmental consultant will conduct the sampling | Yes | Sample documentation complete | CoCs will be returned, signed and dated by laboratory. NATA endorsed laboratory certificates will be completed in accordance with NEPC (1999). Field documentation will be completed in accordance with SMEC SOPs/Field instructions. | Yes (refer to Appendix J) |
| Documentation correct | Samples will be handled and transported under appropriate chain of custody documentation. Sample Receipt Advice (SRA) (or equivalent) from the laboratory will be reviewed to assess that samples are received cool and in good condition. Calibration certificates for the field instruments will be provided on a daily basis. | Yes, with some exceptions | Sample holding times complied with | Samples will be analysed within holding times specified by NEPC (1999, amended 2013) | Yes, with some exceptions (refer to Section 7.5.8) |

| Comparability | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| Same SOPs/Field instructions used on each occasion | SMEC SOPs/Field instructions will be implemented | Yes | Same sample analytical methods used | The same NATA accredited laboratory will be used to undertake analyses of all primary samples collected for this study. The laboratory will use the same analytical methods for each sample for each analytical parameter | Yes |
| Experienced sampler | An experienced SMEC environmental consultant will conduct the sampling. | Yes | Same sample limits of reporting (LOR) | | Yes |
| Climatic conditions (temperature, rainfall, wind, barometric pressure…) | General soil/water: Sampling for this work will be completed when necessary. Climatic conditions are not expected to cause issues for comparability of data | Yes | Same laboratories (justify/quantify if different) | | Yes |
| Same types of samples collected | Samples will be collected in the appropriate laboratory supplied container specific to the analyses performed. | Yes | Same units (justify/quantify if different) | | Yes |

| Representativeness | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| Appropriate media sampled according to sample plan | Samples will be collected and analysed as listed in Section 7. Any variations will be justified. | Yes | All samples analysed according to sample plan<br>All samples analysed according to sample plan | Samples will be collected and analysed as listed in Section 7. NATA accredited environmental testing laboratories will implement a quality control plan conforming to Schedule B(3) 'Guideline on Laboratory Analysis of Potentially Contaminated Soils' of the National Environment Protection (Assessment of Site Contamination Measure 1999 as amended (NEPC, 1999). | Yes |
| All media identified in sample plan sampled | Samples will be collected and analysed as listed in Section 7. | Yes | | Samples will be collected and analysed as listed in Section 7. | Yes |

| Precision | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| SOPs appropriate and complied with | SMEC SOPs/Field instructions will be implemented | Yes | Analysis of laboratory duplicates | The number of duplicate analyses should be the smaller of one per process batch or one per 10 samples. | |
| Analysis of: field duplicates | Collection of field duplicate samples including:<br>• Field intra-laboratory duplicate samples (1 in 20 samples).<br>• Field inter-laboratory duplicate samples (1 in 20 samples). | Yes | Analysis of: field duplicates | Field duplicates have relative percentage difference (RPD) control limits:<br>• Less than 50%, where result is greater than 10 times limit of reporting (LOR).<br>• No limit where result is less than 10 times LOR. | Yes, minor exceptions (refer to Section 7.5.8) |
| | Experienced and trained staff to carry out sampling. Sampling methodologies appropriate and complied with. | Yes | Analysis of: laboratory duplicates | Laboratory duplicates have RPD control limits:<br>• Results <10 times the LOR: No Limit<br>• Results between 10-20 times the LOR: RPD must lie between 0-50%<br>• Results >20 times the LOR: RPD must lie between 0-30%<br>In accordance with laboratory specific QC Acceptance criteria. | Yes, minor exceptions (refer to Section 7.5.9) |
| | | | Analysis of: laboratory-prepared volatile trip spikes | At least one BTEX trip spike per batch will be analysed for volatile contaminants (BTEX). | Yes |
| | | | Analysis of: laboratory-prepared volatile trip blanks | At least one trip blank per batch will be analysed for volatile contaminants (BTEX). | Yes |

| Accuracy (bias) | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| SOP appropriate and complied with | SMEC SOPs/Field instructions will be implemented | Yes | Analysis of field blanks | A laboratory prepared trip blank will be analysed per batch (as defined in AS4482.2-1999 and NEPC (1999). Results are to be less than the limit of reporting (LOR). | Yes |
| Rinsate blank | Where reusable sampling equipment is utilised (if any) a rinsate blank will be analysed and results compared against the PQL. | Yes, minor exceptions (refer to Section 7.5.8) | Analysis of method blank | Method blanks will be analysed as per NEPC (1999) at least 1 per process batch (typically 1 in 20). Results to be less than LOR | Yes |
| Trip spike | One BTEX trip spike will be taken in the field and analysed. DQI - recoveries to be within 70% - 130% for organics | Yes | Analysis of matrix spike | Matrix spikes will be analysed as per NEPC (1999) (one matrix spike per soil type per process batch). Results to be within laboratory acceptance limits based on NEPC (1999). Acceptance limits are on the laboratory certificates (typically 70-130%, depends on analyte. A lower range typically accepted for phenols 30%-130%) | Yes |
| Preservation, transport and storage | Samples appropriately preserved in laboratory supplied containers, stored and transported correctly and within holding times | Yes | Analysis of surrogate spike | Surrogates will be analysed as per NEPC Schedule B3 (1999). All samples spiked where appropriate (e.g. chromatographic analysis of organics). Acceptance limits 70% to 130% (inorganics), or 50% to 150% (organics). | Yes |
| | | | Analysis of laboratory control samples (LCS) | LCSs will be analysed as per NEPC Schedule B3 (1999) (at least 1 per batch). Results to be within laboratory acceptance limits based on NEPC (1999). Acceptance limits are on the laboratory certificates (typically 70-130%, depends on analyte) | Yes |
| | | | Analysis of laboratory-prepared spikes (LPS) | LPS will be analysed as per NEPC Schedule B3 (1999). Recovery results to be within laboratory acceptance limits based on NEPC Schedule B3 (1999). Acceptance limits are on the laboratory certificates. | Yes |

# Appendix E. Calibration Certificates

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 13D100012

airmet
Air-Met Scientific Pty Ltd
1300 137 067

| Item | Test | Pass | Comments |
|---|---|---|---|
| Battery | Charge Condition | ✓ | |
| | Fuses | ✓ | |
| | Capacity | ✓ | |
| | | | |
| Switch/keypad | Operation | ✓ | |
| Display | Intensity | ✓ | |
| | Operation (segments) | ✓ | |
| Grill Filter | Condition | ✓ | |
| | Seal | ✓ | |
| PCB | Condition | ✓ | |
| Connectors | Condition | ✓ | |
| Sensor | 1. pH | ✓ | |
| | 2. mV | ✓ | |
| | 3. EC | ✓ | |
| | 4. D.O | ✓ | |
| | 5. Temp | ✓ | |
| | | | |
| Alarms | Beeper | ✓ | |
| | Settings | ✓ | |
| Software | Version | ✓ | |
| Data logger | Operation | ✓ | |
| Download | Operation | ✓ | |
| Other tests: | | | |

## *Certificate of Calibration*

This is to certify that the above instrument has been calibrated to the following specifications:

| Sensor | Serial no | Standard Solutions | Certified | Solution Bottle Number | Instrument Reading |
|---|---|---|---|---|---|
| 1. pH 10.00 | | | | | |
| 2. pH 7.00 | | pH 7.00 | | 381241 | pH 7.03 |
| 3. pH 4.00 | | pH 4.00 | | 389384 | pH 3.99 |
| 4. mV | | 245.06mV | | 385070/387761 | 245.4mV |
| 5. EC | | 2.76mS | | 385041 | 2.752mS |
| 6. D.O | | 0.00% | | 379624 | -0.1% |
| 7. Temp | | 18.0°C | | MultiTherm | 17.7°C |

*Calibrated by:* Lauren Soutar

*Calibration date:* 13/07/2022

*Next calibration due:* 13/08/2022

# Appendix F. Photographic Log

# Appendix F1: Photographic Log - PSI



Photo 1: 17/01/22 Fencing and gate on northern portion of western boundary along Brisbane St, Facing west



Photo 2: 17/01/22 Asphalt ground surface (poor condition) in centre of Site, south of covered parking area (left), Facing East




Photo 3: 17/01/22 Memorial Rose garden located in centre of Site, Facing south-east



Photo 4: 17/01/22 Ambulance bay, Facing south-east

# Appendix F1: Photographic Log - PSI



Photo 5: 17/01/22 Sheltered car park area located north of Rose Garden, Facing North



Photo 6: 17/01/22 Suspected ACM walls of sheltered car park area located north of Rose Garden



Photo 7: 17/01/22 Suspected ACM fragments on ground surface at sheltered car park area



Photo 8: 17/01/22 Sheltered car park area to the south near boiler and grassed area used for parking (left), facing south

# Appendix F1: Photographic Log - PSI




Photo 9: 17/01/22 Sheltered car park area to north near boiler, Facing north-west



Photo 10: 17/01/22 Grass area used for parking adjacent to sheltered parking area near boiler, Facing north



Photo 11: 17/01/22 Bare ground observed in grassed parking area in north-western portion of Site, Facing north-east



Photo 12: 17/01/22 Unsealed carpark located in north-eastern portion of Site, Facing south-west

# Appendix F1: Photographic Log - PSI



Photo 13: 17/01/22 Garden area adjacent to Ambulance bay and main hospital building, Facing south-west



Photo 14: 17/01/22 Small garden beds along the southern boundary on Liverpool Street, Facing west



Photo 15: 17/01/22 Eastern side of the Staff Accommodation building, Facing south-west



Photo 16: Suspected ACM fragments (circled) observed adjacent to the Staff Accommodation building

# Appendix F1: Photographic Log - PSI



Photo 17: 18/01/22 Interior of historic boiler building, within boiler room. Staining/ char marks observed on northern wall. Facing North.



Photo 18: 18/01/22 Interior of kitchen within boiler building, facing west toward bathroom door. Suspected ACM sheeting observed to be used for ceiling material.



Photo 19: 18/01/22 Diesel AST (left) and generator (right) within generator room, Facing south



Photo 20: 18/01/22 Very minor staining observed on concrete ground surface adjacent to generator fuel loading point

# Appendix F1: Photographic Log - PSI



Photo 21: 18/01/22 Interior of nurse's quarters building used for storage of inert materials



Photo 22: 18/01/22 Interior of nurse's quarters building used for storage of inert materials




Photo 23: 17/01/22 Life-skills building from Ina Drive, at north-eastern portion of the Site, Facing north



Photo 24: 17/01/22 Suspected ACM fragments observed on ground surface on western side of Life Skill building

# Appendix F1: Photographic Log - PSI

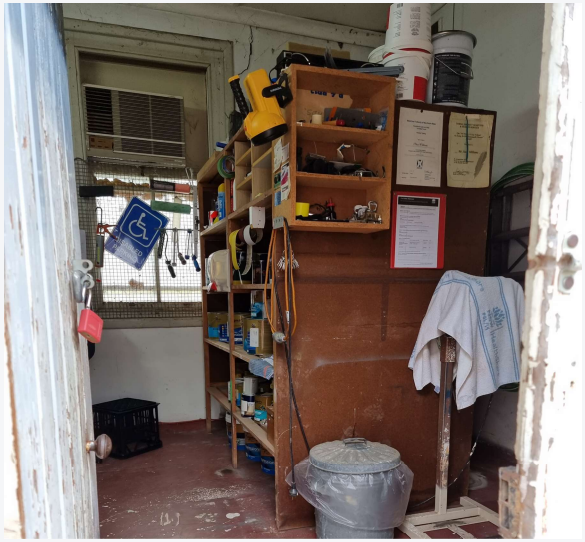


Photo 25: 17/01/22 Interior of northernmost shed used for storage of paints



Photo 26: 17/01/22 Interior of westernmost shed housing redundant incinerator and used for storage



Photo 27: 17/01/22 Area between eastern maintenance sheds used for storage



Photo 28: 17/01/22 Interior of south-eastern maintenance shed used as workshop

# Appendix F1: Photographic Log - PSI



Photo 29: Surface soil at sample location SS01



Photo 30: Lithological profile observed at TP03



Photo 31: Exposed ground surface and ash fill layer at TP04



Photo 32: Fill material with anthropogenic inclusions observed at TP07

# Appendix F1: Photographic Log - PSI



Photo 33: 17/01/22 Slag observed in ash fill material at TP08



Photo 34: 17/01/22 Lithological profile observed at TP09, including fill sandy gravel, ash and natural material



Photo 35: 17/01/22 Cobbles encountered at TP10 resulting in refusal



Photo 36: 17/01/22 Residual natural material encountered at TP03

# Appendix G. Logs

Member of the Surbana Jurong Group

local people
global experience

# Explanatory Notes of Abbreviations and Terms

Used on Borehole and Excavation Logs

## General

The “Geological and Engineering Log” presents data from drilling or excavation operations where material recovery is soil and or rock. Data presented is a combination of material recovered, regular sampling and in-situ testing. Excavations may present data obtained on the subsurface profile from observations of natural or man-made excavations. Logs may contain scaled graphical presentations, photography, or downhole imagery results. Logs may not contain all data types presented in these notes.

The “Non Core Drill Hole Engineering Log” presents data from drilling operations where a core barrel has not been used. The material is penetrated using methods other than those designed to recover core and is commonly soil or extremely to highly weathered. The “Cored Drill Hole Engineering Log” presents data from drilling operations where a core barrel has been used. The “Excavation - Geological Log” presents data obtained on the subsurface profile from observations of excavations, either natural or anthropogenic.

As far as is practicable, the data contained on the log sheet is factual. Some interpretation is inevitable with respect to the:

**a.** assessment of material boundaries in areas of partial sampling and recovery,

**b.** location of areas of core loss,

**c.** description and classification of material,

**d.** estimate of field strength, and

**e.** identification of drilling induced fractures.

Material description and classification is generally based on AS1726-2017 (as amended).

## Drilling Method

| Code | Description |
|---|---|
| ADT | Auger drilling with TC-bit |
| ADV | Auger drilling V-bit |
| AS | Auger screwing |
| AT | Air track |
| CA | Casing advancer |
| CC | Concrete core |
| CTR | Cable tool rig |
| DB | Wash bore drag bit |
| HA | Hand auger |
| HAND | Hand methods |
| HF | Hollow flight auger |
| HMLC | Diamond core 63.5 mm diameter |
| HQ / HRQ | Wire line core barrel 63.5 mm diameter |
| HQ3 | Wire line core barrel 61.1 mm diameter |
| NDD | Non destructive drilling |
| NMLC | Diamond core 51.9 mm diameter |
| NQ | Wire line core barrel 47.6 mm diameter |
| NQ3 | Wire line core barrel 45.1 mm diameter |
| PT | Continuous push tube |
| PQ | Wire line core barrel 85.0 mm diameter |
| RAB | Rotary air blast |
| RC | Reverse circulation |
| RD | Rotary blade or drag bit |
| RR | Rock roller |
| RT | Rotary tricone bit |
| SD | Sonic drilling |
| TBX | Tube-X |
| VC | Vibro-core drilling |
| WB | Wash bore drilling |

## Drilling Penetration

Ease of penetration in non-core drilling

| Term | Description |
|---|---|
| VE | Very easy |
| E | Easy |
| F | Firm |
| H | Hard |
| VH | Very hard |

## Support and Casing

| Code | Description | Code | Description |
|---|---|---|---|
| C | Casing | Hw | 114.3 mm |
| M | Mud | Nw | 88.9 mm |
| W | Water | PVC 150 | 150 mm |

## Core Run

Core lifts are identified by a line and depth with core loss per run as a percentage. Core loss is shown in the core run unless otherwise indicated.

## Defect Spacing

The average distance between defects is measured parallel to the core axis in mm and may be expressed as a range or average.

## Angle / Orientation

Angle from horizontal and orientation to magnetic north.

For inclined cored boreholes the Alpha and Beta angles are presented for orientated core. Alpha (α) is measured relative to the core axis, whilst Beta (β) is measured clockwise from the reference line looking down the core axis in the direction of drilling.

## Excavation Method

| Term | Definition |
|---|---|
| N | Natural exposure |
| X | Existing excavation |
| BB | Tractor mounted backhoe bucket |
| EX | Hydraulic excavator |
| EH | Hydraulic excavator with hammer |
| B | Bulldozer blade |
| R | Ripper |

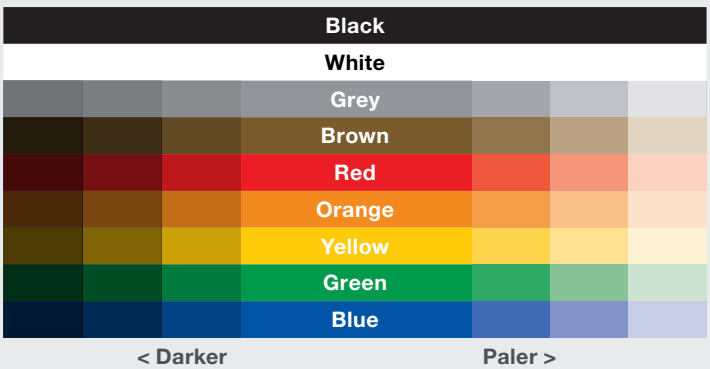
## Water / Drilling Fluid

The drilling fluid used is identified and loss of return to the surface is estimated as a percentage, generally of each core lift.

| Symbol | Description |
|---|---|
|  | Water inflow |
|  | Water outflow |
|  | Water level: during drilling or immediately after completion of drilling |
|  | Groundwater level with date observed prior to introduction of fluids or after standpipe construction |
| Not observed | The observation of groundwater, whether present or not, was not possible due to drilling water, surface seepage or cave in of the borehole / test pit. |
| Not encountered | The borehole / test pit was dry soon after excavation, however groundwater could be present in less permeable strata. Inflow may have been observed had the borehole / test pit been left open for a longer period. |

## Colour

The colour of a soil or rock is described in a moist/wet condition using simple terms, such as black, white, grey, red, brown, orange, yellow green or blue. These are modified as necessary by 'pale', 'dark' or 'mottled'. Borderline colours are described as a combination of these colours (e.g. orange-brown). Where a soil or rock consists of a primary colour with a secondary mottling it is described as (primary colour) mottled (first colour) and (secondary colour). Where colour is described outside of the material description it is for the interval.



## Description of Soil

vi. Soil name (BLOCK LETTERS)

vii. Plasticity or particle size of soil

viii. Colour (i.e. dominant colour of material)

ix. Secondary soil components names & estimated proportions, including their plasticity / particle characteristics, colour

x. Minor soil components name, estimated proportions, including their plasticity / particle characteristics, colour

xi. Other minor soil components

xii. Moisture condition

xiii. Consistency / density

xiv. Structure of soil, geological origin

xv. Additional observations

## Particle Size

| Term | | Grain Size |
|---|---|---|
| Clay | | < 2 µm |
| Silt | | 2 – 75 µm |
| Sand | Fine | 0.075 – 0.21 mm |
| | Medium | 0.21 – 0.6 mm |
| | Coarse | 0.6 – 2.36 mm |
| Gravel | Fine | 2.36 – 6.7 mm |
| | Medium | 6.7 – 19 mm |
| | Coarse | 19 – 63 mm |
| Cobbles | | 63 – 200 mm |
| Boulders | | > 200 mm |

## Fine Grained and Coarse Grained Soils

| Term | Description |
|---|---|
| Fine Grained Soil (cohesive) | More than 35% of the material less than 63 mm is smaller than 0.075 mm (silts and clays) |
| Coarse Grained Soil | More than 65% of the material less than 63 mm is larger than 0.075 mm (sands, gravels and cobbles) |

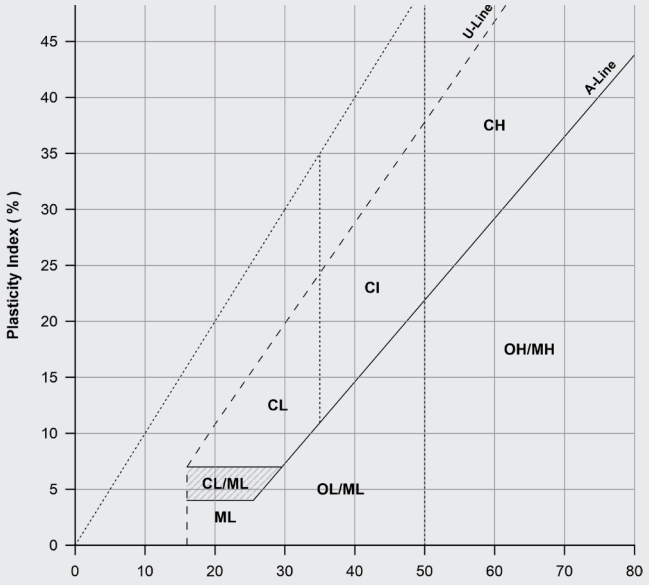
## Descriptive Terms for Secondary and Minor Components

| Designation of Components | In coarse grained soils | | | | In fine grained soils | |
|---|---|---|---|---|---|---|
| | % Fines | Terminology | % Accessory coarse fraction | Terminology | % Sand / Gravel | Terminology |
| Minor | ≤5 | trace | ≤ 15 | trace | ≤ 15 | trace |
| | > 5, ≤ 12 | with | > 15, ≤ 30 | with | > 15, ≤ 30 | with |
| Secondary | > 12 | prefix | > 30 | prefix | > 30 | prefix |

## Plasticity – Fine Grained Soils

| Liquid Limit (LL) % | Description |
|---|---|
| ≤ 35 | Low plasticity (L) |
| > 35 to ≤ 50 | Medium plasticity (I) |
| > 50 | High plasticity (H) |

## Plasticity Chart– Fine Grained Soils



## Consistency Terms – Fine Grained Soils

| Term | Undrained shear strength (kPa) | Indicative SPT (N) Blow Count | Field Guide to Consistency |
|---|---|---|---|
| Very Soft (VS) | < 12 | 0 – 2 | Easily penetrated several centimetres by fist, exudes between fingers when squeezed in fist |
| Soft (S) | 12 – 25 | 2 – 4 | Easily penetrated several centimetres by thumb, easily moulded by light finger pressure |
| Firm (F) | 25 – 50 | 4 – 8 | Can be penetrated several centimetres by thumb with moderate effort, and moulded between the fingers by strong pressure |
| Stiff (St) | 50 – 100 | 8 – 15 | Readily indented by thumb but penetrated only with difficultly. Cannot be moulded by fingers |
| Very Stiff (VSt) | 100 – 200 | 15 – 30 | Readily indented by thumb nail, still very tough |
| Hard (H) | > 200 | > 30 | Indented with difficulty by thumb nail, brittle |
| Friable (Fr) | - | | Can be easily crumbled or broken into small pieces |

## Density Terms – Coarse Grained Soils

| Term | Density Index (%) | SPT (N) Blow Count |
|---|---|---|
| Very Loose (VL) | < 15 | 0 – 4 |
| Loose (L) | 15 – 35 | 4 – 10 |
| Medium Dense (MD) | 35 – 65 | 10 – 30 |
| Dense (D) | 65 – 85 | 30 – 50 |
| Very Dense (VD) | > 85 | > 50 |

## Particle Characteristics – Coarse Grained Soils

| Term | Description |
|---|---|
| Well graded | Having good representation of all particle sizes |
| Poorly graded | With one or more intermediate size poorly represented |
| Gap graded | With one or more intermediate sizes absent |
| Uniform | Essentially of one size |

## Angularity – Coarse Grained Soils

| | |
|---|---|
|  | Rounded |
|  | Sub-rounded |
|  | Angular |
|  | Sub-angular |

## Origin of Soil

| | |
|---|---|
| **Fill** | Formed by anthropogenic activity |
| **Aeolian** | Formed by wind |
| **Alluvial** | Formed by streams and rivers |
| **Colluvial** | Formed on slopes (talus) |
| **Estuarine** | Formed in marine environments |
| **Lacustrine** | Formed in lakes |
| **Residual** | Formed by weathering insitu |

## Soil Moisture

| | Term | Code | Description |
|---|---|---|---|
| Coarse Grained | Dry | D | Looks and feels dry and free running |
| | Moist | M | Soil feels cool, darkened in colour, soils tend to stick together, soil grains do not run freely through fingers and no visible free water |
| | Wet | W | Soil feels cool, darkened in colour, soils tend to stick together, free water on remoulding |
| Fine Grained | Moist, Less than Plastic Limit | W < PL | Hard and friable or powdery, moisture content well below Plastic Limit |
| | Moist, Near Plastic Limit | W ≈ PL | Soil feels cool, darkened in colour, can be moulded, near Plastic Limit |
| | Moist, Wet of Plastic Limit | W > PL | Soil feels cool, dark, usually weakened, free water, moisture content well above Plastic Limit |
| | Wet, Near Liquid Limit | W ≈ LL | Soil exudes easily |
| | Wet, Wet of Liquid Limit | W > LL | Soil behaves as a liquid |

## Boundary Classifications

Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well graded gravel-sand mixture with clay binder.

## Graphic Symbols

| | | | |
|---|---|---|---|
|  | Asphalt |  | MH |
|  | CH |  | ML |
|  | CI |  | OH |
|  | CL |  | OL |
|  | Concrete |  | PT |
|  | Fill |  | SC |
|  | GC |  | SM |
|  | GM |  | SP |
|  | GP |  | SW |
|  | GW |  | Topsoil |

## Soil Classification

Soils are described in general accordance with AS1726-2017 as shown below.

| FIELD IDENTIFICATION PROCEDURES (Excluding particles larger than 63 mm and basing fractions on estimated mass) | | | | | | GROUP SYMBOL | PRIMARY NAME |
|---|---|---|---|---|---|---|---|
| **COARSE GRAINED SOILS** More than 65% of the material is less than 63 mm and is larger than 0.075 mm | A particle size of 0.075 is about the smallest size distinguishable to the naked eye | **GRAVELS** More than half of coarse fraction is larger than 2.36 mm | **CLEAN GRAVELS** (Little or no fines) | Wide range in grain size and substantial amounts of all intermediate particle sizes, not enough fines to bind coarse grains, no dry strength; ≤ 5% fines | | GW | GRAVEL |
| | | | | Predominantly one size or a range of sizes with more intermediate sizes missing, not enough fines to bind coarse grains, no dry strength; ≤ 5% fines | | GP | GRAVEL |
| | | | **GRAVELS w/ FINES** (Appreciable amount of fines) | 'Dirty' materials with excess of non-plastic fines, none to medium dry strength; ≥ 12% silty fines | | GM | SILTY GRAVEL |
| | | | | 'Dirty' materials with excess of plastic fines, medium to high dry strength; ≥ 12% clayey fines | | GC | CLAYEY GRAVEL |
| | | **SANDS** More than half of coarse fraction is smaller than 2.36 mm | **CLEAN SANDS** (Little or no fines) | Wide range in grain size and substantial amounts of all intermediate particle sizes, not enough fines to bind coarse grains, no dry strength; ≤ 5% fines | | SW | SAND |
| | | | | Predominantly one size or a range of sizes with more intermediate sizes missing, not enough fines to bind coarse grains, no dry strength; ≤ 5% fines | | SP | SAND |
| | | | **SANDS w/ FINES** (Appreciable amount of fines) | 'Dirty' materials with excess of non-plastic fines, none to medium dry strength; ≥ 12% silty fines | | SM | SILTY SAND |
| | | | | 'Dirty' materials with excess of plastic fines, medium to high dry strength; ≥ 12% clayey fines | | SC | CLAYEY SAND |
| **FINE GRAINED SOILS** More than 35% of the material less than 63 mm is less than 0.075 mm | | **IDENTIFICATION PROCEDURES ON FRACTIONS** < 0.075 mm | | | | | |
| | | **SILTS AND CLAYS** Liquid Limit < 50% | **DRY STRENGTH** | **DILATANCY** | **TOUGHNESS** | **GROUP SYMBOL** | **PRIMARY NAME** |
| | | | None to low | Slow to rapid | Low | ML | SILT |
| | | | Medium to high | ≥ 12% clayey fines | Medium | CL, CI* | CLAY |
| | | | Low to medium | Slow | Low | OL | ORGANIC SILT |
| | | **SILTS AND CLAYS** Liquid Limit > 50% | Low to medium | None to slow | Low to medium | MH | SILT |
| | | | High to very high | None | High | CH | CLAY |
| | | | Medium to high | None to very slow | Low to medium | OH | ORGANIC CLAY |
| **HIGHLY ORGANIC SOILS:** readily identified by colour, odour, spongy feel and frequently fibrous texture | | | | | | PT | PEAT |

* CL is low plasticity clay, CI is medium plasticity clay

## Description of Rock

i. Rock name (BLOCK LETTERS)
ii. Grain size and mineralogy
iii. Colour (i.e. dominant colour of material)
iv. Fabric and texture
v. Features, inclusions, minor components, moisture content and durability
vi. Strength
vii. Weathering and/or alteration
viii. Rock mass properties – discontinuities and structure of rock
ix. Interpreted stratigraphic unit
x. Additional observations including geological structure

Simple rock names are used to provide a reasonable engineering description, rather than a precise geological classification. The rock name is chosen by considering the nature and shape of the grains or crystals, the texture and fabric of the rock material, the geological structure and setting, and information from the geological map of the area. Further guidance on the naming of rocks can be found in AS1726-2017, Tables 15, 16, 17 and 18. Typical rock types are described below, though subject to site specific variations.

| Rock Type | Description | Example of Rock Name |
|---|---|---|
| Sedimentary | Formed by deposited beds of sediments, have grains that are cemented together and often rounded. Significant porosity | COMMON: Conglomerate, Breccia, Sandstone, Mudstone, Siltstone, Claystone<br><br>≥90% CARBONATE: Limestone, Dolomite, Calcirudite, Calcarenite, Calcisiltite, Calcilutite<br><br>PYROCLASTIC: Agglomerate, Volcanic Breccia, Tuff |
| Igneous | Formed from molten rock and have a crystalline texture. Typically massive and low porosity. Rock types are from coarse to fine grained. | HIGH QUARTZ CONTENT: Granite, Microgranite, Rhyolite<br><br>MODERATE QUARTZ CONTENT: Diorite, Microdiorite, Andesite<br><br>LOW QUARTZ CONTENT: Gabbro, Dolerite, Basalt |
| Metamorphic | Formed when rocks are subject to heat and/or pressure and have typically have directional fabric. Typically have low porosity and crystalline structure. Rock types are from coarse to fine grained | FOLIATED: Gneiss, Schist, Phyllite, Slate<br><br>NON-FOLIATED: Marble, Quartzite, Serpentinite, Hornfels |
| Duricrust | Formed as part of a weathering profile and show evidence of being cemented in situ. Cementation is typically irregular and exhibits replacement textures. | Ferricrete (Iron oxides and hydroxides)<br><br>Silicrete (Silica)<br><br>Calcrete (Calcium carbonate)<br><br>Gypcrete (Gypsum) |

**Note:** ( ) denotes dominant cementing mineralogy

## Grain Size

Terms describing dominate grain size in sedimentary rocks.

| Term | Grain size |
|---|---|
| Coarse | Mainly 0.6 mm to 2.0 mm |
| Medium | Mainly 0.2 mm to 0.6 mm |
| Fine | Mainly 0.06 mm (just visible) to 0.2 mm |

Terms describing dominate grain size in igneous and metamorphic rocks

| Term | Grain size |
|---|---|
| Coarse | Mainly greater than 2 mm |
| Medium | 0.06 mm to 2 mm |
| Fine | Mainly less than 0.06 mm (just visible) to 0.2 mm |

## Texture and Fabric

### Sedimentary rocks

| Thickness | Bedding Term |
|---|---|
| < 6 mm | Thinly laminated |
| 6 – 20 mm | Laminated |
| 20 – 60 mm | Very thinly bedded |
| 60 – 200 mm | Thinly bedded |
| 0.2 – 0.6 m | Medium bedding |
| 0.6 – 2 m | Thickly bedded |
| > 2 m | Very thickly bedded |

### Igneous rocks

| Term | Definition |
|---|---|
| Amorphous | Indicates that the rock has no obvious crystalline structure |
| Crystalline | A regular molecular structure, showing crystal structure and symmetry. |
| Cryptocrystalline | The texture comprises crystals that are too small to recognise under an ordinary microscope. Indistinctly crystalline. |
| Porphyritic | Indicates the presence of phenocrysts (relatively large crystals in a fine grained ground mass) in igneous rocks. |
| Flow banded | Indicates visible flow lines in volcanic rocks and some intrusive rocks |
| Glassy | Entirely glass like. No crystalline units and without crystalline structure. |
| Vesicular | A texture of volcanic rocks that indicates the presence of vesicles (small gas bubbles). Where the vesicles are filled with a mineral substance they are termed Amygdales and the texture is Amygdaloidal. |

### Metamorphic

| Term | Definition |
|---|---|
| Foliation | The parallel arrangement of minerals due to metamorphic process, which shall be defined by the terms in weak, moderate and strongly foliated. |
| Porphyroblastic | A texture indicating the presence of porphyroblasts (larger crystals formed by recrystallization during metamorphism, such as garnet or staurolite in a mica schist). |
| Cleavage | A type of foliation developed in fine grained metamorphic rocks such as slates. |

## Bedding and Fabric Development

| Type | Definition |
|---|---|
| Massive | No obvious development of bedding – rock appears homogeneous |
| Poorly Developed | Bedding is barely obvious as faint mineralogical layering or grain size banding, but bedding planes are poorly defined. |
| Well Developed | Bedding is apparent in outcrops or drill core as distinct layers or lines marked by mineralogical or grain size layering. |
| Very Well Developed | Bedding is often marked by a distinct colour banding as well as by mineralogical or grain size layering. |
| Indistinct Fabric | There is little effect on strength properties |
| Distinct Fabric | The rock may break more easily parallel to the fabric |

## Rock Strength

| Term (Code) | UCS (MPa) | $Is_{(50)}$ (MPa) | Field Guide to Strength |
|---|---|---|---|
| Very Low (VL) | 0.6 - 2 | > 0.03 to ≤ 0.1 | Material crumbles under firm blows with sharp end of pick; can be peeled with knife; too hard to cut a triaxial sample by hand. Pieces up to 3 cm thick can be broken by finger pressure. |
| Low (L) | 2 - 6 | > 0.1 to ≤ 0.3 | Easily scored with a knife; indentations 1 mm to 3 mm show in the specimen with firm blow of the pick point; has dull sound under hammer. A piece of core 150 mm long 50 mm in diameter may be broken by hand. Sharp edges of core may be friable and break during handling. |
| Medium (M) | 6 - 20 | > 0.3 to ≤ 1.0 | Readily scored with a knife; a piece of core 150 mm long by 50 mm in diameter can be broken by hand with difficulty. |
| High (H) | 20 - 60 | > 1 to ≤ 3 | A piece of core 150 mm long by 50 mm in diameter cannot be broken by hand but can be broken by a pick with a single firm blow; rock rings under hammer. |
| Very High (VH) | 60 - 200 | > 3 to ≤ 10 | Hand specimen breaks with pick after more than one blow; rock rings under hammer. |
| Extremely High (EH) | > 200 | > 10 | Specimen requires many blows with geological pick to break through intact material; rock rings under hammer. |

Rock strength is assessed by laboratory Uniaxial Compressive Strength (UCS) testing and/or Point Load Strength Index (PLT) testing to obtain the $Is_{(50)}$ the strength table implies a 20 times correlation between $Is_{(50)}$ and UCS used for classification. Note however, multiplier may range from 4 (e.g. some carbonated and low strength rocks) to 40 (e.g. some igneous rocks and/or some high strength rocks). A site specific correlation based on testing, previous investigation or literature may be used where available. These terms refer to the strength of the rock material and not to the strength of the rock mass which may be considered weaker due to the effect of rock defects.

## Visual Log

A diagrammatic plot of defects showing type, spacing and orientation in relation to the core axis.

- Defects open in situ or clay sealed
- Defects closed in-situ
- Drill induced fractures or handling breaks
- Infilled seam

## Rock Weathering and or Alteration Classification

| Term (Code) | | Definition | |
|---|---|---|---|
| Residual soil (RS) | | Soil developed on extremely weathered rock. The rock mass structure and substance fabric are no longer evident but the soil has not been significantly transported. | |
| Extremely weathered (XW)<br>Extremely altered (XA) | | Rock is weathered to such an extent that it has 'soil' properties, i.e, it either disintegrates or can be remoulded in water, but the texture of original rock is still evident. | |
| Highly weathered (HW)<br>Highly Altered (HA) | Distinctly weathered (DW)* | Whole rock material is discoloured usually by extent that iron staining or bleaching and other signs of chemical or physical decomposition are evident. Porosity and strength may be increased or decreased compared to the fresh rock usually as a result of iron leaching or deposition. The colour and strength of the original rock substance is no longer recognisable | *Where is it not practical to distinguish between 'HW' and MW'. Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores |
| Moderately weathered (MW)<br>Moderately Altered (MA) | Distinctly Altered (DA) | Whole rock material is discoloured usually by staining that original colour of the fresh rock is no longer recognisable | |
| Slightly weathered (SW)<br>Slightly altered (SA) | | Rock is slightly discoloured but shows little or no change of strength from fresh rock | |
| Fresh rock (FR) | | Rock shows no sign of decomposition or staining. | |

## Rock Core Recovery

### TCR = Total Core Recovery (%)

$$\frac{\textbf{Length of Core Recovered}}{\textbf{Length of Core run}} \times 100$$

### SCR = Solid Core Recovery (%)

$$\frac{\textbf{Sum Length of Cylindrical Core Recovered}}{\textbf{Length of Core run}} \times 100$$

### RQD = Rock Quality Designation (%)

$$\frac{\textbf{Sum Length of Sound Core Pieces > 100mm in length}}{\textbf{Length of Core run}} \times 100$$

## Types of Defects

| Term | | Code | Description |
|---|---|---|---|
| Parting | | PT | A surface or crack across which the rock has little or no tensile strength. Parallel or sub-parallel to layering (e.g. bedding) or a planar anisotropy in the rock material (i.e. cleavage). May be opened or closed. |
| Joint | | JT | A surface or crack with no apparent shear displacement and across which the rock has little or no tensile strength, but which is not parallel or sub-parallel to layering or to planar anisotropy in the rock material. May be open or closed. |
| Sheared Surface | | SR | A near planar, curved or undulating surface which is usually smooth, polished or slickensided and which shows evidence of shear displacement. |
| Sheared Zone | | SZ | Zone of rock material with roughly parallel, near planar, curved, or undulating boundaries cut by closely spaced joints, sheared surfaces or other defects. Some of the defects are usually curved and intersect to divide the mass into lenticular or wedge-shaped blocks. |
| Crushed Zone [a] | | CZ | A zone of broken and disturbed ground containing more than one identifiable Crushed Seam. |
| Fracture Zone [a] | | FZ | A zone of broken ground with parallel to opposing boundaries dominated by abundant, extremely closely to closely spaced defects, which may be intact or open, and planar, curved, undulating, irregular, or stepped, resulting in a dissected rock mass of angular trapezoidal, triangular or rectangular fragments. |
| Seam (SE) | Sheared Seam | SS | Seam of soil material with roughly parallel almost planar boundaries, composed of soil materials with roughly parallel near planar, curved or undulating boundaries cut by closely spaced joints, sheared surfaces or other defects. Some of the defects are usually curved and intersect to divide the mass into lenticular or wedge-shaped blocks. |
| | Crushed Seam | CS | Seam of soil material with roughly parallel almost planar boundaries, composed of disoriented, usually angular fragments of the host rock material which may be more weathered than the host rock. The seam has soil properties. |
| | Infilled Seam | IS | Seam of soil material usually with distinct roughly parallel boundaries formed by the migration of soil into an open cavity or joint, infilled seams less than 1 mm thick may be described as a veneer or coating on a joint surface. |
| | Extremely Weathered Seam | XS | Seam of soil material, often with gradational boundaries. Formed by weathering of the rock material in place. |
| Fault [b] | | FT | A fracture (defect) or fracture zone along which there has been an observable amount of displacement. |
| Vein [c] | | VE | Any fracture that contains mineralized material. Veins can display either crack-normal extension or shear displacement coupled with crack-normal extension. |
| Vugh [a] | | VG | An open void with secondary crystallisation which may be coated, partly or nearly completely filled. |
| Void [a] | | VO | An open space created through natural or anthropogenic processes, including, but not limited to, caves, kettles, tunnels, mines, pipes, piping, landslides, faulting, shearing, dissolution, & erosion. |
| Mechanical Break | | MB | A fracture or break induced or created by the sampling process (i.e. drilling (DB) handling (HB), drill lift (DL), excavation, or blasting). |

All definitions as per AS1726-2017, except:

[a] SMEC Field Manual,
[b] British Standard BS 5930:2015, and
[c] Glossary of Geology (Fifth Edition - revised) (2011 ), American Geosciences Institute.

## Defect Planarity

| Code | Description |
|---|---|
| CR | Curved – A defect with a gradual change in orientation |
| IR | Irregular – A defect with many sharp changes in orientation |
| PL | Planar – Defect forms a continuous plane without variation in orientation |
| ST | Stepped – A defect with distinct sharp steps or step |
| UN | Undulose – A defect with undulations |

## Defect Roughness

| Code | Description |
|---|---|
| RO | Rough – Many small surface irregularities generally related to the grain size of the parent rock |
| SM | Smooth – Few or no surface irregularities related to the grain size of the parent rock |
| PO | Polished – Planes have a distinct sheen or a smoothness |
| SL | Slickensided – Planes have a polished, grooved or striated surface consistent with differential movement of the parent rock along the plane |
| VR | Very rough – many large surface irregularities, amplitude generally more than 1mm |

## Type of Structures

| Term | Code | Description |
|---|---|---|
| Bedding | BD | A layered arrangement of minerals parallel to the surface of deposition which has caused planar anisotropy in the rock substance. |
| Cleavage | CV | An alignment of fine grained minerals caused by deformation. |
| Schistosity | SH | A layered arrangement of minerals to each other |
| Foliation | FO | A planar alignment of minerals caused by deformation. |
| Void | VO | A completely empty space |
| Dyke | DK | Sheet-like bodies of igneous rock that cut across sedimentary bedding or foliations in rocks. They may be single or multiple in nature |
| Sill | SL | A sill is an intrusion of magma that spreads underground between the layers of another kind of rock |
| Contact | CX | A contact between intrusive and stratigraphic units. |
| Boundary | BN | A distinct boundary between two stratigraphic units |
| Vugh | VG | An open void with crystalisation |

**Note:** Drill breaks (DB) and handling breaks (HB) are not included as natural discontinuity.

## Discontinuity Spacing

| Spacing (mm) | Description |
|---|---|
| > 6000 | Extremely Widely Spaced |
| 2000 - 6000 | Very Widely Spaced |
| 600 - 2000 | Widely Spaced |
| 200 - 600 | Medium Spaced |
| 60 - 200 | Closely Spaced |
| 20 - 60 | Very Closely Spaced |
| < 20 | Extremely Closely Spaced |

## Infill Material

| Code | Name | Code | Name |
|---|---|---|---|
| Ap | Apatite | Ga | Galena |
| Ca | Calcite | Gp | Gypsum |
| Ch | Chlorite | Mn | Manganese |
| Cl | Clay | MnO | Manganese Oxide |
| Co | Coal | MS | Secondary mineral |
| Ep | Epidote | Py | Pyrite |
| Fe | Limonite/ Ironstone/ Goethite | Um | Unidentified mineral |
| FeO | Iron oxide | Qz | Quartz |
| Fs | Feldspar | X | Carbonaceous |
| | | Ze | Zeolite |

## Discontinuity Observation

| Term | Code | Description |
|---|---|---|
| Clean | CN | No visible coating or infill |
| Stain | SN | No visible coating or infill but surfaces are discoloured by mineral staining |
| Veneer < 1 mm | VN | A visible coating or soil or mineral substance but usually unable to be measured. If discontinuous over the plane, patchy veneer. |
| Coating > 1 mm to < 10 mm | CT | A visible coating or infilling of soil or mineral substance. Describe composition and thickness. |
| Filling (Filled) > 10 mm | FD | A visible filling of soil or mineral substance. Describe composition and thickness. |

## Discontinuity Orientation

| Code | Description |
|---|---|
| VT | Vertical |
| HO | Horizontal |
| RL | Top right to bottom left |
| LR | Top left to bottom right |

## Samples and Field Tests

| Code | Description |
|---|---|
| B | Bulk disturbed sample |
| BLK | Block sample |
| C | Core sample |
| CBR | CBR Mould Sample |
| $CPT_u$ | Cone Penetration Test (with pore pressure) |
| DT | Dilatometer |
| DS | Small disturbed sample |
| ES | Soil sample for environmental testing |
| EW | Water sample for environmental testing |
| FP | Pressuremeter |
| G | Gas sample |
| H | Hydraulic fracturing |
| HP | Hand penetrometer test |
| I | Impression device |
| $Is_{(50)}$ | Point Load Index |
| K | Permeability |
| LB | Large bulk disturbed sample |
| N | Standard penetration test result (N* denotes SPT sample recovery) |
| O | Core orientation |
| P | Piston sample |
| PID | Photoionisation detector reading in ppm |
| PP | Penetrometer |
| R | Hammer bouncing / refusal |
| SPT | Standard Penetration Test |
| U | Undisturbed push in sample |
| UCS | Uniaxial Compressive Strength |
| U50 | Undisturbed tube sample (50 mm diameter) |
| U75 | Undisturbed tube sample (75 mm diameter) |
| U100 | Undisturbed tube sample (100 mm diameter) |
| VS | Vane shear test |
| ● (A) | Axial Test |
| ○ (D) | Diametral Test |
| □ | Irregular Lump test |

## Laboratory Tests

| Code | Description |
|---|---|
| ACM | Asbestos Containing Material |
| CD | Consolidated Drained |
| CU | Consolidated Undrained |
| LL | Liquid Limit |
| LS | Linear Shrinkage |
| MC | Moisture Content |
| MDD | Maximum Dry Density |
| OMC | Optimum Moisture Content |
| PBT | Plate Bearing Test |
| PI | Plasticity Index |
| PL | Plastic Limit |
| PSD | Particle Size Distribution |
| $\rho_b$ | Bulk Density |
| $\rho_p$ | Particle Density |
| $\rho_d$ | Dry Density |
| UU | Undrained Unconsolidated |

## Backfill / Standpipe Detail

| Symbol | Description | Symbol | Description |
|---|---|---|---|
|  | Cement seal |  | Filter pack: sand filter |
|  | Grout backfill<br>GP -Cement<br>BE - Bentonite Cement |  | Filter pack: gravel filter |
|  | Un-slotted pipe |  | Bentonite seal |
|  | Slotted pipe |  | Cutting – excavated material backfill |
|  | Surface Completion: Monument Above Ground |  | Surface Completion: Gatic Ground Monument |

## Completion Details

| Type | Description |
|---|---|
| Collapse | Exploratory hole collapsed before reaching planned depth |
| Equipment Failure | Boring or excavator equipment operational failure |
| Flooding | Flooding of excavation |
| Machine Limit | Limit of machine capability reached |
| Obstruction | Obstruction preventing further advancement |
| Operator Limit | Limit of operator limit/safety reached |
| Possible services | Indication of possible services below |
| Services present | Services encountered during exploratory hole |
| Squeezing | Hole squeezing boring equipment |
| Target Depth | Depth reached as planned |
| Target Depth (Instrumentation Installed) | Depth reached as planned instrumentation installed |
| Target Depth (Standpipe Installed) | Depth reached as planned open standpipe constructed |
| Material Refusal | Material preventing further advancement |

## Status

| Code | Description |
|---|---|
| -2 | Historic |
| -1 | For information |
| 0 | Preliminary |
| 1 | Checked |
| 2 | Draft |
| 3 | Final |

SMEC
Member of the Surbana Jurong Group

# GEOLOGICAL LOG BORE HOLE WITH STANDPIPE / PIEZOMETER

| | |
|---|---|
| **HOLE No:** | **BH12** |
| **SHEET No:** | 1 of 2 |
| **PROJECT No:** | ***30013211*** |

PROJECT : Cowra Hospital Redevelopment
PURPOSE : Detailed Site Investigation (Contamination)
LOCATION : Cowra Hospital

CLIENT : NSW Health Infrastructure
FINAL DEPTH: 10m

SURFACE ELEVATION :
TOP OF CASING:
ANGLE FROM HORIZONTAL : 90°

| Drilling | | Depth | | | | MATERIAL | | Standpipe Construction | | OTHER OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Elev (AHD) | Depth (m) | Water | Moisture Condition | Graphic Log | MATERIAL DESCRIPTION<br>SOIL NAME : plasticity or particle characteristic, colour, secondary and minor components<br>ROCK NAME : grain size, colour, texture and fabric, features, inclusion and minor components | Construction Details | Construction notes | Notes (Structure, origin, etc) |
| HA | | | 0.0 | | | | FILL Sandy CLAY with gravel: low plasticity, brown, red brown, sand is fine to coarse grained, gravel is fine to coarse grained, rounded to sub-rounded (black, suspected ash). | BH12 | Concrete: | **FILL**<br>0.00: grass on the surface, rootlets throughout layer |
| | | | | | | | 0.50m | | Bentonite: | |
| | | | | | | | Sandy GRAVEL: fine to coarse grained, dark grey, black, white. | | | **FILL (ASH LAYER)** |
| | | | 1.0 | | | | 1.00m | | | |
| PT | | | | | | | FILL Sandy Silty CLAY trace gravel: low plasticity, brown, sand is fine to medium grained, gravel is fine to coarse grained, rounded to sub-rounded (black, suspected ash). | | | **FILL**<br>1.40: glass fragments, rootlets |
| | | | | | | | 1.60m | | Grout: | **RESIDUAL SOIL** |
| | | | 2.0 | | D | | Sandy CLAY: low plasticity, brown, red brown, sand is fine to coarse grained. | | | |
| SFA | | | 3.0 | | | | | | Bentonite: | |
| | | | 4.0 | | | | | | Start Slotted 4m | |

Draft

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Strata Core
EQUIPMENT: 6625CPT

COMMENCED: 11/07/2022
COMPLETED: 11/07/2022

LOGGED BY: PV
CHECKED BY: PV

Log_SMEC STANDPIPE CONSTRUCTION_SMEC.ENV.NSW.30013211.GPJ | Lib: SEMC 1.06.5 lib Prj: SMEC 1.06.0

SMEC
Member of the Surbana Jurong Group

# GEOLOGICAL LOG BORE HOLE WITH STANDPIPE / PIEZOMETER

| | |
|---|---|
| **HOLE No:** | **BH12** |
| **SHEET No:** | 2 of 2 |
| **PROJECT No:** | ***30013211*** |

PROJECT : Cowra Hospital Redevelopment
PURPOSE : Detailed Site Investigation (Contamination)
LOCATION : Cowra Hospital

CLIENT : NSW Health Infrastructure
FINAL DEPTH: 10m

SURFACE ELEVATION :
TOP OF CASING:
ANGLE FROM HORIZONTAL : 90°

| Drilling | | Depth | | | | MATERIAL | | Standpipe Construction | | OTHER OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Elev (AHD) | Depth (m) | Water | Moisture Condition | Graphic Log | MATERIAL DESCRIPTION<br>SOIL NAME : plasticity or particle characteristic, colour, secondary and minor components<br>ROCK NAME : grain size, colour, texture and fabric, features, inclusion and minor components | Construction Details | Construction notes | Notes (Structure, origin, etc) |
| SFA | | | 6.0<br>7.0<br>8.0<br>9.0 | | D | | Sandy CLAY: low plasticity, brown, red brown, sand is fine to coarse grained. *(continued)*<br><br>10.00m Hole Terminated at 10.00 m Target depth | Sand: | End Slotted 10m | **RESIDUAL SOIL** |

Draft

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Strata Core
EQUIPMENT: 6625CPT

COMMENCED: 11/07/2022
COMPLETED: 11/07/2022

LOGGED BY: PV
CHECKED BY: PV

Log_SMEC STANDPIPE CONSTRUCTION_SMEC.ENV.NSW.30013211.GPJ | Lib: SEMC 1.06.5 lib Prj: SMEC 1.06.0

# GEOLOGICAL LOG BORE HOLE WITH STANDPIPE / PIEZOMETER

SMEC
Member of the Surbana Jurong Group

| | |
|---|---|
| **HOLE No:** | **BH29** |
| **SHEET No:** | 1 of 2 |
| **PROJECT No:** | ***30013211*** |

PROJECT : Cowra Hospital Redevelopment
PURPOSE : Detailed Site Investigation (Contamination)
LOCATION : Cowra Hospital

CLIENT : NSW Health Infrastructure
FINAL DEPTH: 7m

SURFACE ELEVATION :
TOP OF CASING:
ANGLE FROM HORIZONTAL : 90°

| Drilling | | Depth | | | | MATERIAL | | Standpipe Construction | | OTHER OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Elev (AHD) | Depth (m) | Water | Moisture Condition | Graphic Log | MATERIAL DESCRIPTION<br>SOIL NAME : plasticity or particle characteristic, colour, secondary and minor components<br>ROCK NAME : grain size, colour, texture and fabric, features, inclusion and minor components | Construction Details | Construction notes | Notes (Structure, origin, etc) |
| CC | | | | | D | | 0.10m CONCRETE: grey. | BH29 | Concrete: | **CONCRETE** |
| HA | | | | | | | 0.20m FILL Clayey Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained, sub-angular to sub-rounded (ash, mixed origin). | | | **FILL**<br>0.20: broken bricks, rootlets |
| | | | | | | | 0.30m FILL Gravelly SAND: fine to coarse grained, orange-brown, gravel is fine to coarse grained, sub-angular to sub-rounded. | | Bentonite: | |
| | | | | | | | 0.60m FILL Clayey Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained (ash, mixed origin). | | | **RESIDUAL SOIL** |
| | | | | | | | Sandy CLAY with gravel: low plasticity, brown, red-brown, sand is fine to coarse grained, gravel is fine to coarse grained. | | | |
| | | | 1.0 | | D - M | | | | Grout: | 1.50: rootlets |
| | | | 2.0 | | | | 2.60m Sandy Silty CLAY: low to medium plasticity, brown, sand is fine to medium grained. | | Bentonite: | |
| SFA | | | 3.0 | | | | | | | |
| | | | | | M | | 3.50: as above, trace fine to coarse grained, sub-rounded gravel | | Start Slotted 3.5m | |
| | | | 4.0 | | | | 4.80m Sandy CLAY: low plasticity, brown, red-brown, sand is fine to coarse grained. | | | |

Draft

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Strata Core
EQUIPMENT: 6625CPT

COMMENCED: 11/07/2022
COMPLETED: 12/07/2022

LOGGED BY: PV
CHECKED BY: PV

Log_SMEC STANDPIPE CONSTRUCTION_SMEC.ENV.NSW.30013211.GPJ | Lib: SEMC 1.06.5 lib Prj: SMEC 1.06.0

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# GEOLOGICAL LOG BORE HOLE WITH STANDPIPE / PIEZOMETER

| | |
|---|---|
| **HOLE No:** | **BH29** |
| **SHEET No:** | 2 of 2 |
| **PROJECT No:** | ***30013211*** |

PROJECT : Cowra Hospital Redevelopment
PURPOSE : Detailed Site Investigation (Contamination)
LOCATION : Cowra Hospital

CLIENT : NSW Health Infrastructure
FINAL DEPTH: 7m

SURFACE ELEVATION :
TOP OF CASING:
ANGLE FROM HORIZONTAL : 90°

| Drilling | | Depth | | | | MATERIAL | | Standpipe Construction | | OTHER OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Elev (AHD) | Depth (m) | Water | Moisture Condition | Graphic Log | MATERIAL DESCRIPTION<br>SOIL NAME : plasticity or particle characteristic, colour, secondary and minor components<br>ROCK NAME : grain size, colour, texture and fabric, features, inclusion and minor components | Construction Details | Construction notes | Notes (Structure, origin, etc) |
| SFA | | | 6.0 | | M | | Sandy CLAY: low plasticity, brown, red-brown, sand is fine to coarse grained. *(continued)* | Sand: | | |
| | | | | | | | 6.20m | | | |
| | | | | | D | | Clayey SAND: fine to medium grained, red-brown, clay is low plasticity. | | | EXTREMELY WEATHERED MATERIAL |
| | | | 7.0 | | | | 7.00m | End Slotted 7m | | |
| | | | | | | | Hole Terminated at 7.00 m<br>Target depth | | | |
| | | | 8.0 | | | | | | | |
| | | | 9.0 | | | | | | | |

Draft

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Strata Core
EQUIPMENT: 6625CPT

COMMENCED: 11/07/2022
COMPLETED: 12/07/2022

LOGGED BY: PV
CHECKED BY: PV

Log_SMEC STANDPIPE CONSTRUCTION_SMEC ENV NSW 30013211.GPJ | Lib: SEMC 1.06.5 lib Prj: SMEC 1.06.0

SMEC
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# GEOLOGICAL LOG BORE HOLE WITH STANDPIPE / PIEZOMETER

| | |
|---|---|
| **HOLE No:** | **BH32** |
| **SHEET No:** | 1 of 2 |
| **PROJECT No:** | ***30013211*** |

PROJECT : Cowra Hospital Redevelopment
PURPOSE : Detailed Site Investigation (Contamination)
LOCATION : Cowra Hospital

CLIENT : NSW Health Infrastructure
FINAL DEPTH: 9m

SURFACE ELEVATION :
TOP OF CASING:
ANGLE FROM HORIZONTAL : 90°

| Drilling | | Depth | | | | MATERIAL | | Standpipe Construction | | OTHER OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Elev (AHD) | Depth (m) | Water | Moisture Condition | Graphic Log | MATERIAL DESCRIPTION<br>SOIL NAME : plasticity or particle characteristic, colour, secondary and minor components<br>ROCK NAME : grain size, colour, texture and fabric, features, inclusion and minor components | Construction Details | Construction notes | Notes (Structure, origin, etc) |
| SFA | | | | | | | 0.01m<br>0.10m ASPHALT: grey, dark grey, coarse grained gravel. | BH32 | Concrete: | ASPHALT |
| | | | | | | | FILL SAND: medium to coarse grained, orange-brown. | | | FILL |
| HA | | | | | | | FILL Gravelly Sandy CLAY: low plasticity, red-brown, sand is fine to coarse grained, gravel is fine to coarse grained. | | Bentonite: | |
| | | | | | | | 0.60m | | | |
| | | | | | | | Sandy CLAY: low plasticity, red-brown, sand is fine to medium grained. | | | RESIDUAL SOIL |
| PT | | | 1.0 | | D | | | | Grout: | |
| | | | 2.0 | | | | 1.90-3.00: trace black sand | | Bentonite: | |
| SFA | | | 3.0 | | | | | | Start Slotted 3.5m | |
| | | | 4.0 | | M | | | | | |
| | | | | | | | 4.50m | | | |
| | | | | | D | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | | EXTREMELY WEATHERED MATERIAL |

Draft

**Notes:** ▶ Inflow ◀ Outflow ▼ Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Strata Core
EQUIPMENT: 6625CPT

COMMENCED: 12/07/2022
COMPLETED: 12/07/2022

LOGGED BY: PV
CHECKED BY: PV

Log_SMEC STANDPIPE CONSTRUCTION_SMEC.ENV.NSW.30013211.GPJ | Lib: SEMC 1.06.5 lib Prj: SMEC 1.06.0

# GEOLOGICAL LOG BORE HOLE WITH STANDPIPE / PIEZOMETER

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Member of the Surbana Jurong Group

| | |
|---|---|
| **HOLE No:** | **BH32** |
| **SHEET No:** | 2 of 2 |
| **PROJECT No:** | ***30013211*** |

PROJECT : Cowra Hospital Redevelopment
PURPOSE : Detailed Site Investigation (Contamination)
LOCATION : Cowra Hospital

CLIENT : NSW Health Infrastructure
FINAL DEPTH: 9m

SURFACE ELEVATION :
TOP OF CASING:
ANGLE FROM HORIZONTAL : 90°

| Drilling | | Depth | | | | MATERIAL | | Standpipe Construction | | OTHER OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Elev (AHD) | Depth (m) | Water | Moisture Condition | Graphic Log | MATERIAL DESCRIPTION<br>SOIL NAME : plasticity or particle characteristic, colour, secondary and minor components<br>ROCK NAME : grain size, colour, texture and fabric, features, inclusion and minor components | Construction Details | Construction notes | Notes (Structure, origin, etc) |
| SFA | | | 6.0 | ▶ | D | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. *(continued)* | | Sand: | **EXTREMELY WEATHERED MATERIAL** |
| | | | 7.0 | | W | | | | | |
| | | | 8.0 | | | | | | | |
| | | | 9.0 | | | | 9.00m<br>Hole Terminated at 9.00 m<br>Target depth | | End Slotted 9m | |

Draft

**Notes:** ▶ Inflow ◀ Outflow ▼ Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Strata Core
EQUIPMENT: 6625CPT

COMMENCED: 12/07/2022
COMPLETED: 12/07/2022

LOGGED BY: PV
CHECKED BY: PV

Log_SMEC STANDPIPE CONSTRUCTION_SMEC ENV NSW 30013211.GPJ | Lib: SEMC 1.06.5 lib Prj: SMEC 1.06.0

# BOREHOLE: HA31

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | | Not Observed | 0.0 | | | | | | ASPHALT: dark grey, coarse grained gravel. | | MD - D | ASPHALT |
| | | | | 0.10 | ES 0.10-0.20 m | | | | FILL Gravelly SAND trace clay: fine to coarse grained, brown, orange-brown, gravel is fine to coarse grained, sub-angular to sub-rounded, rounded. | D | MD | FILL |
| | | | 0.2 | 0.30 | | | | | | | | |
| | | | | | | | | | Hole Terminated at 0.30 m<br>Target depth | | | |
| | | | 0.4 | | | | | | | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA34

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 14/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey SAND: fine to medium grained, red-brown, brown. | D | L - MD | FILL<br>0.00m: grass at surface; rootlets, wood chips throughout layer |
| | | | 0.2 | | | | | | | | | |
| | | | 0.4 | *0.40* | ES 0.40-0.50 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | | RESIDUAL SOIL |
| | | | | *0.56* | | | | | Hole Terminated at 0.56 m<br>Target depth | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA35

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 14/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E | Not Observed | 0.0 | | ES 0.00-0.01 m | | | | FILL Sandy CLAY: low plasticity, brown, sand is fine to medium grained. | | | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | 0.25 | ES 0.30-0.40 m | | | | FILL Clayey SAND: fine to coarse grained, brown, red-brown, clay is low plasticity. | D | MD | |
| | | | 0.4 | 0.45 | | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | | RESIDUAL SOIL |
| | | | | 0.50 | | | | | Hole Terminated at 0.50 m<br>Target depth | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA36

Member of the Surbana Jurong Group

| | | | |
|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | |
| Location | Cowra Hospital | Sheet | 1 OF 1 |
| Position | | | |
| Job No. | 30013211 | Contractor | Date Started 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | Date Completed 14/07/2022 |
| | | Inclination -90° | Logged PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Silty CLAY with sand: low plasticity, brown, sand is fine to medium grained. | | | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | *0.25* | | | | | | | | |
| | | | | | ES 0.40-0.50 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | D | MD | RESIDUAL SOIL |
| | | | 0.4 | *0.55* | | | | | | | | |
| | | | 0.6 | | | | | | Hole Terminated at 0.55 m<br>Target depth | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA37

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 14/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Silty CLAY with sand trace gravel: low plasticity, brown, sand is fine to coarse grained, gravel is coarse graiend, sub-rounded (ash, mixed origin). | D | MD | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | | | | | | | | | |
| | | | | *0.30* | | | | | | | | |
| | E | | 0.4 | | ES 0.40-0.50 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | L - MD | RESIDUAL SOIL |
| | | | 0.6 | *0.60* | | | | | Hole Terminated at 0.60 m<br>Target depth | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 IJB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA38

Member of the Surbana Jurong Group

| | | | |
|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | |
| Location | Cowra Hospital | Sheet | 1 OF 1 |
| Position | | | |
| Job No. | 30013211 | Contractor | Date Started 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | Date Completed 14/07/2022 |
| | | Inclination -90° | Logged PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E | Not Observed | 0.0 | | ES 0.00-0.01 m | | | | FILL Silty CLAY: low plasticity, brown, sand is fine to coarse grained, gravel is coarse grained, sub-rounded (ash, mixed origin). | | | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | 0.25 | | | | | | | | |
| | | | | | | | | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | D | L - MD | RESIDUAL SOIL |
| | | | 0.4 | | ES 0.40-0.50 m | | | SC | | | | |
| | | | | 0.56 | | | | | Hole Terminated at 0.56 m<br>Target depth | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA39

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | H | Not Observed | 0.0 | 0.02 | ES 0.00-0.10 m | | | | ASPHALT: grey, dark grey, coarse gravel. | | MD - D | ASPHALT |
| | | | | 0.10 | | | | | FILL SAND: coarse grained, orange-brown. | | | FILL |
| | E-F | | 0.2 | | ES 0.30-0.50 m | | | | FILL Gravelly SAND trace clay: medium to coarse grained, orange brown, brown, gravel is fine to coarse grained (ash, mixed origin). | D | MD | 0.10m: concrete rubble |
| | | | 0.4 | 0.50 | | | | | | | | |
| | | | 0.6 | | | | | | Hole Terminated at 0.50 m<br>Target depth | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA40

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| CC | H | Not Observed | 0.0 | | | | | | CONCRETE: grey. | | | CONCRETE |
| | | | | *0.10* | | | | | | | | |
| HA | F-H | | 0.2 | | ES 0.15-0.25 m | | | | FILL Clayey SAND trace gravel: fine to coarse grained, brown, clay is low plasticity, gravel is fine to coarse grained, sub-rounded to sub-angular. | D | D | FILL |
| | | | | *0.31* | | | | | | | | |
| | | | | | | | | | Hole Terminated at 0.31 m<br>Refusal, possibly second slab | | | |
| | | | 0.4 | | | | | | | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA41

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 14/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey SAND trace gravel: fine to coarse grained, brown, clay is low plasticity, gravel is coarse grained, sub-angular to sub-rounded (ash, mixed origin). | D | L - MD | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | | | | | | | | | |
| | | | | 0.35 | | | | | | | | |
| | F-H | | 0.4 | | ES 0.40-0.50 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | MD | RESIDUAL SOIL |
| | | | | 0.56 | | | | | Hole Terminated at 0.56 m<br>Target depth | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA42

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 14/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Sandy CLAY: brown, sand is fine to medium grained. | D | MD | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | 0.28 | | | | | Hole Terminated at 0.28 m<br>Refusal on suspected brick/concrete slab | | | 0.28m: brick rubble |
| | | | 0.4 | | | | | | | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA43

Member of the Surbana Jurong Group

| | | | |
|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | |
| Location | Cowra Hospital | Sheet | 1 OF 1 |
| Position | | | |
| Job No. | 30013211 | Contractor | Date Started 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | Date Completed 14/07/2022 |
| | | Inclination -90° | Logged PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey SAND: fine to coarse grained, brown, clay is low plasticity. | | | FILL<br>0.00-0.02m: grass at surface; rootlets |
| | | | 0.2 | *0.20* | | | | | FILL SAND trace clay trace gravel: fine to coarse grained, brown, clay is low plasticity, gravel is medium to coarse grained, sub-rounded gravel. | D | MD | |
| | | | | | ES 0.30-0.40 m | | | | | | | 0.40m: broken tile/cement, brick rubble |
| | | | 0.6 | *0.60* | | | | | Hole Terminated at 0.60 m<br>Target depth | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

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Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:55 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: HA44

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | | Date Started | 14/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | | Date Completed | 14/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E | Not Observed | 0.0 | | ES 0.00-0.01 m | | | | FILL Sandy CLAY: low plasticity, brown, sand is fine to medium grained. | | MD - D | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | | 0.15 | | | | | | | | |
| | | | | 0.20 | | | | | FILL Sandy CLAY with gravel: low plasticity, red-brown, sand is fine to coarse grained, gravel is coarse grained, rounded to sub-rounded. | D | | |
| | F | | 0.2 | | ES 0.20-0.30 m | | | CL | Sandy CLAY: low plasticity, red-brown, sand is fine to coarse grained. | | D | RESIDUAL SOIL |
| | | | | 0.32 | | | | | | | | |
| | H | | | 0.35 | | | | SP | SAND: medium to coarse grained, pale brown. | | | EXTREMELY WEATHERED MATERIAL |
| | | | 0.4 | | | | | | Hole Terminated at 0.35 m<br>Refusal | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

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# TEST PIT: TP11

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Silty CLAY: brown, sand is fine to medium grained. | D | L | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | | *0.12* | | | | | Sandy GRAVEL trace clay: fine to coarse grained, sub-angular to angular, dark grey, grey, white, sand is fine to coarse grained (ash gravels). | | | FILL (ASH) |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | | 0.30m: glass shards |
| | | | 0.4 | *0.45* | | | | | | | | |
| | F | | | | ES 0.50-0.60 m | | | CI | Sandy CLAY: red-brown. | | D | RESIDUAL SOIL |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | *1.00* | | | | | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 IJB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP13

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Silty Clayey Gravelly SAND: fine to coarse grained, brown, red-brown silty clay, dark grey, black, grey sand and ash, gravel is fine to coarse grained, sub-angular to sub-rounded. | D | L | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | | 0.10 | | | | | FILL Silty CLAY: low plasticity, red-brown. | | | |
| | | | 0.2 | | ES 0.20-0.40 m | | | | | | | 0.20m: glass fragments, concrete rubble |
| | | | | 0.25 | ES 0.25-0.35 m | | | | Gravelly SAND: fine to coarse grained, black, grey, dark grey, white, gravel is fine to coarse grained. | | | FILL (ASH LAYER) |
| | | | | 0.35 | | | | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | | RESIDUAL SOIL |
| | F-H | | 0.4 | | ES 0.40-0.50 m | | | | | | | |
| | | | 0.6 | | | | | SC | | | MD - D | |
| | | | 0.8 | | | | | | | | | |
| | | | | 0.90 | ES 0.90-1.00 m | | | | Sandy CLAY: low plasticity, red-brown, sand is fine to coarse grained. | | D | |
| | | | 1.0 | 1.00 | | | | CL | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP14

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained, rounded to sub-rounded (ash, mixed), rootlets. | D | MD | FILL |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | | 0.30-0.40m: potential asbestos pieces observed (~0.4-0.65cm in size) white-grey, fair condition, brick rubble |
| | | | 0.4 | | | | | | 0.50: as above, red-brown, brown | | | 0.50m: potential asbestos pieces observed (0.3cm, 0.5cm in size), white-grey, fair condition, brick and concrete rubble, tiles, metal pipe, rootlets |
| | | | 0.6 | *0.60* | | | | | | | | |
| | F | | | | ES 0.70-0.80 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | MD - D | RESIDUAL SOIL |
| | | | 0.8 | *0.80* | | | | | Hole Terminated at 0.80 m Target depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP15

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey SAND with gravel: fine to coarse grained, brown, clay is low plasticity, gravel is rounded, sub-rounded to sub-angular. | | | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | | ES 0.20-0.30 m | | | | | | | |
| | | | | | ES 0.30-0.40 m | | | | | | | 0.30m: bricks, steel pipe |
| | | | 0.4 | *0.40* | | | | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | D | L - MD | RESIDUAL SOIL |
| | | | | | ES 0.50-0.60 m | | | SC | | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | *0.90* | | | | | Hole Terminated at 0.90 m<br>Target depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP16

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey SAND with gravel: fine to coarse grained, brown, orange-brown, gravel is fine grained, sub-angular to sub-rounded (ash, mixed), rootlets. | D | MD | FILL<br>0.00m: gravel at surface; rootlets throughout layer<br>0.50m: bricks, concrete rubble |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | | |
| | | | 0.4 | | | | | | | | | |
| | | | 0.6 | *0.60* | ES 0.70-0.80 m | | | CL | Sandy CLAY: low plasticity, red-brown. | | D | RESIDUAL SOIL |
| | F-H | | 0.8 | | | | | | | | | |
| | | | 1.0 | *1.00* | | | | | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

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# TEST PIT: TP17

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m<br>ES 0.00-0.20 m | | | | FILL Silty Sandy CLAY trace gravel: low plasticity, brown, sand is fine to medium grained, gravel is coarse grained, sub-rounded to rounded. | D | MD | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | *0.20* | | | | | Clayey SAND: fine to coarse grained, red-brown. | | | RESIDUAL SOIL |
| | F | | 0.4 | | ES 0.30-0.40 m | | | SC | | | | |
| | | | 0.6 | *0.60* | | | | | Sandy CLAY: low plasticity, red-brown, sand is fine to coarse grained. | | D | |
| | F-H | | 0.8 | | ES 0.70-0.80 m | | | CL | | | | |
| | | | 1.0 | *1.00* | | | | | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP18

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Gravelly SAND: fine to coarse grained, orange-brown, gravel is fine to medium grained, sub-rounded. | D | L - MD | FILL |
| | | | 0.2 | *0.20* | ES 0.30-0.40 m | | | | Clayey Gravelly SAND: fine to coarse grained, black, dark grey, grey, white, gravel is fine to coarse grained, sub-angular to sub-rounded (ash, mixed), clay is brown, low plasticity. | | | FILL (ASH LAYER) |
| | | | 0.4 | *0.40* | ES 0.40-0.50 m | | | | Clayey SAND: fine to coarse grained, red-brown. | | | RESIDUAL SOIL |
| | H | | 0.6 | | ES 0.50-0.60 m | | | SC | | | D | |
| | | | 0.8 | *0.90* | | | | | | | | |
| | | | 1.0 | | | | | | Hole Terminated at 0.90 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

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# TEST PIT: TP19

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Silty Clayey SAND: fine to coarse grained, brown, fines are low plasticity, gravel is fine grained, sub-rounded to sub-angular (ash, mixed). | D | L - MD | FILL<br>0.00m: porcelain, bricks, concrete rubble |
| | | | 0.2 | | | | | | | | | 0.20m: potential asbestos fragment, poor to fair condition, grey (0.6cm in size) |
| | | | | | ES 0.30-0.40 m | | | | | | | 0.30-0.40m: 12x potential asbestos fragments (0.1-0.6cm in size) |
| | | | 0.4 | | ES 0.40-0.50 m | | | | | | | |
| | | | 0.6 | | | | | | | | | 0.70m: concrete, steel reinforcement bars |
| | | | 0.8 | | | | | | | | | 0.90m: broken clay pipe, concrete |
| | | | 1.0 | | ES 1.00-1.10 m | | | | | | | |
| | | | | 1.10 | | | | | Clayey SAND: fine to medium grained, red-brown. | | | RESIDUAL SOIL |
| | | | 1.2 | | ES 1.20-1.30 m | | | SC | | | | |
| | | | | 1.30 | | | | | Hole Terminated at 1.30 m<br>Target depth | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

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Date

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# TEST PIT: TP20

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 2 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Silty Clayey SAND with gravel: fine to coarse grained, brown, clay is low plasticity, gravel is fine to coarse grained, sub-rounded, grass, rootlets. | | | FILL<br>0.00m: grass at surface; rootlets throughout layer<br>0.10m: bricks |
| | | | 0.2 | | | | | | | | | |
| | | | | 0.30 | | | | | | | | |
| | | | 0.4 | | ES 0.30-0.40 m | | | | Gravelly SAND trace clay: fine to coarse grained, black, grey, dark grey, white, gravel is fine to coarse grained (ash), clay is brown, low plasticity. | | | FILL (ASH LAYER)<br>0.50m: glass |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | 0.80m: bricks |
| | | | | | ES 0.90-1.00 m | | | | | | | 0.90m: tree root |
| | | | 1.0 | | | | | | | D | L | |
| | | | 1.2 | | | | | | | | | 1.30m: porcelain |
| | | | 1.4 | | | | | | | | | 1.40m: glass |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | | | ES 1.90-2.00 m | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

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Date

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# TEST PIT: TP20

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 2 OF 2 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 2.0 | | | | | | Gravelly SAND trace clay: fine to coarse grained, black, grey, dark grey, white, gravel is fine to coarse grained (ash), clay is brown, low plasticity. | D | L | FILL (ASH LAYER) |
| | | | 2.2 | | | | | | | | | 2.30m: old shovel head |
| | | | 2.4 | | ES 2.40-2.50 m | | | | | | | |
| | | | | *2.50* | | | | | Hole Terminated at 2.50 m<br>Target depth | | | |
| | | | 2.6 | | | | | | | | | |
| | | | 2.8 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |
| | | | 3.2 | | | | | | | | | |
| | | | 3.4 | | | | | | | | | |
| | | | 3.6 | | | | | | | | | |
| | | | 3.8 | | | | | | | | | |
| | | | 4.0 | | | | | | | | | |

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Comments

Checked PV

Date

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# TEST PIT: TP21

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| | H | | 0.0 | 0.02 | ES 0.00-0.10 m | | | | ASPHALT: dark grey. | | D | ASPHALT |
| | | | | | | | | | FILL Clayey Gravelly SAND: fine to coarse grained, red-brown, gravel is fine to coarse grained, rounded to sub-rounded, sub-angular (ash, concrete, mixed), clay is low plasticity. | | | FILL |
| | | | 0.2 | | ES 0.20-0.30 m | | | | | | | |
| | | | | 0.30 | | | | | | | | |
| EX | F | Not Observed | 0.4 | | ES 0.40-0.50 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | D | MD | RESIDUAL SOIL |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | 0.80 | | | | | Hole Terminated at 0.80 m<br>Target depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Comments

Checked PV

Date

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# TEST PIT: TP22

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | H | Not Observed | 0.0 | 0.05 | ES 0.00-0.10 m | | | | ASPHALT. | | | ASPHALT |
| | | | | | | | | | FILL Clayey Gravelly SAND: fine to coarse grained, red-brown, gravel is fine to coarse grained, sub-rounded to sub-angular (mixed, ash). | | | FILL |
| | | | 0.2 | 0.30 | ES 0.30-0.40 m | | | | Black, tar/cement. | | | FILL (CEMENT/TAR LAYER) |
| | F | | | 0.36 | | | | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | | RESIDUAL SOIL |
| | | | 0.4 | | ES 0.50-0.60 m | | | | | | | |
| | | | 0.6 | | | | | SC | | | | |
| | | | 0.8 | 0.90 | | | | | | | | |
| | | | 1.0 | | | | | | Hole Terminated at 0.90 m Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP23

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | H | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | ASPHALT. | D | D | ASPHALT |
| | | | | | | | | | FILL Gravelly SAND trace clay: fine to coarse grained, orange-brown, gravel is fine to coarse grained, rounded to sub-rounded, clay is low plasticity. | | L | FILL |
| | | | 0.2 | *0.20* | ES 0.20-0.25 m | | | | Sandy GRAVEL: fine to coarse grained, grey-black-white, gravel is fine to coarse grained, sub-rounded to sub-angular (ash). | | | FILL (ASH LAYER) |
| | | | | *0.25* | ES 0.30-0.40 m | | | | FILL Clayey Gravelly SAND: fine to coarse grained, red-brown, gravel is fine to coarse grained, sub-rounded to rounded, sub-angular (mixed, ash), clay is low plasticity. | | MD | FILL<br>0.40m: concrete rubble, bricks |
| | F | | 0.4 | *0.50* | | | | | | D | | |
| | | | 0.6 | | ES 0.60-0.70 m | | | SC | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | | MD - D | RESIDUAL SOIL |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | *1.00* | | | | | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Comments

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Date

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# TEST PIT: TP24

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Sandy CLAY: low plasticity, brown, red-brown, sand is fine to coarse grained. | D | MD - D | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | | 0.30m: hose (plastic) |
| | | | 0.4 | | | | | | | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | ES 0.90-1.00 m | | | | | | | 0.90m: concrete boulder, steel reinforcement bars |
| | | | 1.0 | *1.00* | | | | | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

Comments

Checked PV

Date

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SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP25

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Sandy CLAY: low plasticity, brown-red, brown, sand is fine to coarse grained, gravel is fine to coarse grained, sub-rounded to sub-angular (ash), rootlets. | D | MD - D | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | | |
| | | | 0.4 | *0.40* | | | | | Sandy GRAVEL: fine to coarse grained, sub-rounded to sub-angular, grey, dark grey, white, black, sand is fine to coarse grained. | | L | FILL (ASH LAYER) |
| | E | | | | ES 0.50-0.60 m | | | | | | | |
| | | | 0.6 | *0.70* | | | | | FILL Sandy CLAY: low plasticity, brown-red, brown, sand is fine to coarse grained, gravel is fine to coarse grained, sub-rounded to sub-angular (ash), rootlets. | | MD - D | FILL<br>0.70m: rootlets throughout layer<br>0.80m: metal pieces, brick rubble, concrete rubble |
| | F | | 0.8 | | ES 0.80-0.90 m | | | | | | | |
| | | | 1.0 | *1.00* | | | | | Hole Terminated at 1.00 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:56 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# TEST PIT: TP26

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Sandy CLAY: low plasticity, brown, sand is fine to coarse grained. | D | MD | FILL<br>0.00m: grass at surface; rootlets throughout layer |
| | | | | 0.10 | | | | | | | | |
| | | | | | ES 0.10-0.20 m | | | | Sandy GRAVEL: fine to coarse grained, grey, dark grey, white, sand is fine to coarse grained (ash). | | L | FILL (ASH LAYER) |
| | | | | 0.20 | | | | | | | | |
| | | | 0.2 | | | | | | FILL Sandy CLAY trace gravel: low plasticity, red-brown, sand is fine to coarse grained, gravel is fine to coarse grained, sub-angular to sub-rounded (ash, concrete rubble). | | | FILL<br>0.20m: bricks, concrete rubble |
| | | | | | ES 0.30-0.40 m | | | | | | L - MD | |
| | | | | 0.40 | | | | | | | | |
| | | | 0.4 | | | | | | Hole Terminated at 0.40 m<br>Refusal on suspected concrete footing | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

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Date

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# TEST PIT: TP27

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Sandy CLAY: low plasticity, brown, sand is fine to coarse grained, gravel is fine to coarse grained (concrete rubble, mixed). | | | FILL<br>0.00m: grass at surface; rootlets throughout layer<br>0.10m: concrete rubble |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | | 0.40m: concrete pipe |
| | | | 0.4 | | | | | | | | | |
| | | | 0.6 | | | | | | | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | ES 1.00-1.10 m | | | | | | | 1.00m: concrete pipe |
| | | | | *1.10* | | | | | Hole Terminated at 1.10 m<br>Target depth | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

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Date

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# TEST PIT: TP28

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | | |
| Location | Cowra Hospital | | | Sheet | 1 OF 1 |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Mick Gee's Bobcat & Excavator Hire | Date | 13/07/2022 |
| Client | NSW Health Infrastructure | Machine | Excavator (SK55RX) | Logged | PV |
| | | Bucket Size | 300mm | | |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| EX | E | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Clayey SILT trace sand: low plasticity, brown, sand is fine grained, rootlets, grass. | D | L | FILL |
| | | | | 0.12 | | | | | FILL Clayey Gravelly SAND: fine to coarse grained, brown, red-brown, gravel is fine to coarse grained, rounded to sub-rounded, trace concrete boulders. | | | |
| | | | 0.2 | | ES 0.30-0.40 m | | | | | | MD | 0.30m: brick rubble, concrete rubble, reinforcement bars throughout layer |
| | | | 0.4 | | | | | | | | | |
| | | | | 0.50 | | | | | Sandy CLAY: low plasticity, red-brown. | | | RESIDUAL SOIL |
| | | | 0.6 | | ES 0.60-0.70 m | | | CL | | | MD - D | |
| | | | | 0.70 | | | | | Hole Terminated at 0.70 m<br>Target depth | | | |
| | | | 0.8 | | | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.2 | | | | | | | | | |
| | | | 1.4 | | | | | | | | | |
| | | | 1.6 | | | | | | | | | |
| | | | 1.8 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |

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Comments

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Date

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# BOREHOLE: BH12

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 2 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 11/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 11/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | E-F | Not Observed | 0.0 | | ES 0.00-0.10 m | | | | FILL Sandy CLAY with gravel: low plasticity, brown, red brown, sand is fine to coarse grained, gravel is fine to coarse grained, rounded to sub-rounded (black, suspected ash). | D | L - MD | FILL<br>0.00m: grass on the surface, rootlets throughout layer |
| | | | 0.5 | 0.50 | ES 0.30-0.50 m | | | | | | | |
| | | | | | ES 0.50-0.60 m | | | | Sandy GRAVEL: fine to coarse grained, dark grey, black, white. | | L | FILL (ASH LAYER) |
| | | | 1.0 | 1.00 | ES 0.90-1.00 m | | | | FILL Sandy Silty CLAY trace gravel: low plasticity, brown, sand is fine to medium grained, gravel is fine to coarse grained, rounded to sub-rounded (black, suspected ash). | | MD - D | FILL<br>1.40m: glass fragments, rootlets |
| PT | | | 1.5 | 1.60 | | | | | | | | |
| | | | | | ES 1.90-2.00 m | | | | Sandy CLAY: low plasticity, brown, red brown, sand is fine to coarse grained. | | | RESIDUAL SOIL |
| SFA | H | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | | | ES 2.90-3.00 m | | | | | | | |
| | | | 3.0 | | | | | CL | | | D - VD | |
| | | | 3.5 | | | | | | | | | |
| | | | | | ES 3.90-4.00 m | | | | | | | |
| | | | 4.0 | | | | | | | | | |
| | | | 4.5 | | | | | | | | | |
| | | | | | ES 4.90-5.00 m | | | | | | | |
| | | | 5.0 | | | | | | | | | |

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Comments

Checked PV

Date

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# BOREHOLE: BH12

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 2 OF 2 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 11/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 11/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| SFA | H | Not Observed | 5.0 | | | | | CL | Sandy CLAY: low plasticity, brown, red brown, sand is fine to coarse grained. | D | D - VD | RESIDUAL SOIL |
| | | | 10.0 | *10.00* | | | | | Hole Terminated at 10.00 m Target depth | | | |

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Comments

Checked PV

Date

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# BOREHOLE: BH29

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 2 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 11/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| CC | H | | 0.0 | 0.10 | | | | | CONCRETE: grey. | D | VD | CONCRETE |
| HA | F-H | | | 0.20 | ES 0.10-0.20 m | | | | FILL Clayey Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained, sub-angular to sub-rounded (ash, mixed origin). | | | FILL |
| | | | | 0.30 | | | | | FILL Gravelly SAND: fine to coarse grained, orange-brown, gravel is fine to coarse grained, sub-angular to sub-rounded. | | | 0.20m: broken bricks, rootlets |
| | | | 0.5 | 0.60 | ES 0.50-0.60 m | | | | FILL Clayey Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained (ash, mixed origin). | | | |
| | | | | | | | | | Sandy CLAY with gravel: low plasticity, brown, red-brown, sand is fine to coarse grained, gravel is fine to coarse grained. | | | RESIDUAL SOIL |
| | | | | | ES 0.90-1.00 m | | | | | | | |
| | | | 1.0 | | | | | | | | | |
| | | | | | | | | | | D - M | MD - D | |
| | | | 1.5 | | | | | CL | | | | 1.50m: rootlets |
| | | | | | ES 1.90-2.00 m | | | | | | | |
| | | | 2.0 | | ES 2.00-2.50 m | | | | | | | |
| | | | 2.5 | 2.60 | | | | | Sandy Silty CLAY: low to medium plasticity, brown, sand is fine to medium grained. | | | |
| SFA | H | | | | ES 2.90-3.00 m | | | | | | | |
| | | | 3.0 | | | | | | | | | |
| | | | 3.5 | | | | | CL-CI | 3.50: as above, trace fine to coarse grained, sub-rounded gravel | M | D | |
| | | | | | ES 3.90-4.00 m | | | | | | | |
| | | | 4.0 | | | | | | | | | |
| | | ▶ | 4.5 | | | | | | | | | |
| | | | | 4.80 | | | | | Sandy CLAY: low plasticity, brown, red-brown, sand is fine to coarse grained. | | | |
| | | | | | ES 4.90-5.00 m | | | CL | | | | |
| | | | 5.0 | | | | | | | | | |

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Comments

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Date

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# BOREHOLE: BH29

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 2 OF 2 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 11/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| SFA | H | | 5.0 | | | | | CL | Sandy CLAY: low plasticity, brown, red-brown, sand is fine to coarse grained. | M | D | |
| | | | 5.5 | | | | | | | | | |
| | | | 6.0 | | ES 5.90-6.00 m | | | | | | | |
| | | | | 6.20 | | | | | | | | |
| | | | 6.5 | | | | | SC | Clayey SAND: fine to medium grained, red-brown, clay is low plasticity. | D | | EXTREMELY WEATHERED MATERIAL |
| | | | | 7.00 | ES 6.90-7.00 m | | | | | | | |
| | | | 7.0 | | | | | | Hole Terminated at 7.00 m<br>Target depth | | | |
| | | | 7.5 | | | | | | | | | |
| | | | 8.0 | | | | | | | | | |
| | | | 8.5 | | | | | | | | | |
| | | | 9.0 | | | | | | | | | |
| | | | 9.5 | | | | | | | | | |
| | | | 10.0 | | | | | | | | | |

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Comments

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Date

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# BOREHOLE: BH32

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 2 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| SFA | H | | 0.0 | 0.10 | ES 0.10-0.20 m | | | | ASPHALT: grey, dark grey, coarse grained gravel. | D | D | ASPHALT |
| | | | | | | | | | FILL SAND: medium to coarse grained, orange-brown. | | | FILL |
| HA | F | | 0.5 | 0.60 | ES 0.40-0.50 m | | | | FILL Gravelly Sandy CLAY: low plasticity, red-brown, sand is fine to coarse grained, gravel is fine to coarse grained. | | MD - D | |
| | | | | | ES 0.60-0.70 m | | | | Sandy CLAY: low plasticity, red-brown, sand is fine to medium grained. | | | RESIDUAL SOIL |
| PT | | | 1.0 | | ES 1.00-1.10 m | | | | | D | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | ES 1.90-2.00 m | | | | 1.90-3.00: trace black sand | | | |
| | | | 2.5 | | | | | CL | | | | |
| SFA | H | | 3.0 | | ES 2.90-3.00 m | | | | | | VD | |
| | | | 3.5 | | | | | | | M | | |
| | | | 4.0 | | ES 3.90-4.00 m | | | | | | | |
| | | | 4.5 | 4.50 | | | | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | D | | EXTREMELY WEATHERED MATERIAL |
| | | | | | ES 4.90-5.00 m | | | SC | | | | |
| | | | 5.0 | | | | | | | | | |

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Comments

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Date

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# BOREHOLE: BH32

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 2 OF 2 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| SFA | H | ▶ | 5.0 | | | | | | Clayey SAND: fine to coarse grained, red-brown, clay is low plasticity. | D | | EXTREMELY WEATHERED MATERIAL |
| | | | 5.5 | | | | | | | | | |
| | | | | | ES 5.90-6.00 m | | | | | | | |
| | | | 6.0 | | | | | | | | | |
| | | | 6.5 | | | | | | | | | |
| | | | | | ES 6.90-7.00 m | | | | | | | |
| | | | 7.0 | | | | | SC | | | VD | |
| | | | 7.5 | | | | | | | W | | |
| | | | 8.0 | | | | | | | | | |
| | | | 8.5 | | | | | | | | | |
| | | | 9.0 | *9.00* | | | | | Hole Terminated at 9.00 m<br>Target depth | | | |
| | | | 9.5 | | | | | | | | | |
| | | | 10.0 | | | | | | | | | |

Comments

Checked PV

Date

Draft

SMEC 2.10.15 IJB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:52 10.02.000.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: BH30

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| HA | | | 0.0 | 0.10 | ES 0.00-0.10 m | | | | ASPHALT. | | D | ASPHALT |
| | | | | 0.30 | | | | | FILL Gravelly SAND trace clay: fine to coarse grained, brown, orange-brown, gravel is fine to coarse grained, sub-rounded to rounded. | | MD - D | FILL |
| | | | 0.5 | 0.60 | ES 0.30-0.40 m<br>ES 0.40-0.60 m | | | | FILL Clayey SAND trace gravel: fine to coarse grained, red-brown, gravel is fine to medium grained, sub-rounded to sub-angular. | | | 0.30m: SFA refusal |
| SFA | H | Not Observed | 1.0 | | ES 0.90-1.00 m | | | | Sandy CLAY: low plasticity, red-brown, sand is fine to coarse grained. | | | RESIDUAL SOIL |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | ES 1.90-2.00 m | | | CL | 2.00: as above, trace fine to medium grained, rounded to sub-rounded, sub-angular gravel | D | D | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | ES 2.90-3.00 m | | | | | | | |
| | | | 3.5 | | | | | | | | | |
| | | | | 3.80 | | | | | | | | |
| | | | | 4.00 | ES 3.90-4.00 m | | | SC | Clayey SAND: fine to coarse grained, red-brown. | | | EXTREMELY WEATHERED MATERIAL |
| | | | 4.0 | | | | | | Hole Terminated at 4.00 m<br>Target depth | | | |
| | | | 4.5 | | | | | | | | | |
| | | | 5.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:54 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# BOREHOLE: BH33

Member of the Surbana Jurong Group

| | | | | | |
|---|---|---|---|---|---|
| Project | Cowra Hospital Redevelopment Detailed Site Investigation (Contamination) | | | Sheet | 1 OF 1 |
| Location | Cowra Hospital | | | | |
| Position | | | | | |
| Job No. | 30013211 | Contractor | Strata Core | Date Started | 12/07/2022 |
| Client | NSW Health Infrastructure | Drill Rig | 6625CPT | Date Completed | 12/07/2022 |
| | | Inclination | -90° | Logged | PV |

| Drilling | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | PENETRATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | USCS SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| | H | | 0.0 | | ES 0.00-0.01 m | | | | ASPHALT: grey, dark grey, coarse grained, sub-angular gravel. | | | ASPHALT |
| | | | | 0.20 | | | | | FILL Gravelly SAND: orange- brown, brown. | | | FILL |
| | | | | 0.25 | | | | | FILL Gravelly Sandy CLAY: red-brown, brown, sand is fine to coarse grained, gravel is fine to coarse grained, sub-angular to sub-rounded, rounded (potential ash, mixed origin). | | | |
| | | | | 0.40 | ES 0.30-0.40 m | | | | | | | |
| | | | 0.5 | | ES 0.40-0.60 m | | | | FILL Clayey Gravelly SAND: fine to coarse grained, red-brown, fine to coarse grained, rounded, sub-rounded to sub-angular gravel (potential ash, mixed origin). | | | |
| | | | | 0.70 | | | | | FILL Sandy Gravelly CLAY: red-brown, fine to coarse grained, rounded, sub-rounded to sub-angular gravel (potential ash, mixed origin). | | | RESIDUAL SOIL |
| | F | | 1.0 | | ES 0.90-1.00 m | | | CL-CI | Sandy CLAY: low to medium plasticity, red-brown, sand is fine to medium grained. | D | D | |
| | | | 1.5 | | | | | | | | | |
| | | | | 2.00 | ES 1.90-2.00 m | | | | | | | |
| | | | 2.0 | | | | | | Hole Terminated at 2.00 m<br>Target depth | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |
| | | | 3.5 | | | | | | | | | |
| | | | 4.0 | | | | | | | | | |
| | | | 4.5 | | | | | | | | | |
| | | | 5.0 | | | | | | | | | |

Draft

Comments

Checked PV

Date

SMEC 2.10.15 UB.GLB Log _SMEC IS AU BOREHOLE 3 SMEC ENV NSW 30013211.GPJ <<DrawingFile>> 05/08/2022 12:54 10.02.00.04 Datgel Tools | Lib: SMEC 2.10.9 2021-08-30 Prj: SMEC 2.10.8 2020-09-10

# Appendix H. Field Monitoring Results

Table H1. Surface Soil Sample Descriptions

| Surface Sample ID | Sample Date | Sample Depth (m bgl) | Soil Description | Location Reference | Photo Reference |
|---|---|---|---|---|---|
| SS01 | | 0.0-0.1 | FILL: Sandy CLAY, brown, soft, dry, non-plastic, heterogenous with inclusions of medium gravels and organic matter | SS01 | Appendix F1: Photo 29 |
| SS02 | | 0.0-0.1 | FILL: Sandy CLAY, brown, soft, dry, non-plastic, heterogenous with inclusions of medium gravels and organic matter | SS02 | - |
| SS03 | | 0.0-0.1 | FILL: Sandy CLAY, brown, soft, dry, non-plastic, heterogenous with inclusions of suspected bonded ACM fragments, medium gravels and organic matter | SS03<br>SS03_FRAG | - |
| SS45 | 11/07/2022 | 0.00-0.05 | FILL: silty SAND, brown, fine to medium grained sand, trace fine to coarse sub angular to sub rounded gravel, broken porcelain pieces, concrete rubble. | SS45/0.00-0.05 | Appendix F2: Photo 62, 63 |
| SS45 | 11/07/2022 | 0.15-0.20 | FILL: silty SAND, brown, fine to medium grained sand, trace fine to coarse sub-angular to sub-rounded gravel, broken porcelain pieces, concrete rubble. | SS45/0.15-0.20 | Appendix F2: Photo 64 |
| SS46 | 11/07/2022 | 0.00-0.05 | FILL: silty clayey SAND, brown, fine to medium grained sand, low plasticity clay, trace medium to coarse sub-rounded gravel, broken tiles. | SS46/0.00-0.05 | Appendix F2: Photo 65, 66 |
| SS46 | 11/07/2022 | 0.15-0.20 | FILL: silty clayey SAND, brown, fine to medium grained sand, low plasticity clay, trace medium to coarse sub-rounded gravel, broken tiles. | SS46/0.15-0.20 | Appendix F2: Photo 67 |
| SS47 | 14/07/2022 | 0.00-0.05 | FILL: clayey SAND, brown, fine to coarse grained sand, low plasticity clay, trace coarse sub-rounded gravel, rootlets. | SS47/0.00-0.05 | Appendix F2: Photo 68 |
| SS48 | 14/07/2022 | 0.00-0.05 | FILL: clayey SAND, brown, fine to coarse grained sand, low plasticity clay, rootlets. | SS48/0.00-0.05 | Appendix F2: Photo 69 |
| SS48 | 14/07/2022 | 0.15-0.20 | FILL: clayey sandy GRAVEL, dark-grey, black, white and grey, fine to coarse sub-angular gravel (ash), brown low plasticity clay, fine to coarse grained sand. | SS48/0.15-0.20 | Appendix F2: Photo 70 |
| SS49 | 14/07/2022 | 0.00-0.05 | FILL: sandy GRAVEL, black, coarse angular to sub-angular gravel (asphalt) and trace rounded to sub-rounded gravel (mixed origin), brown fine to medium grained sand. | SS49/0.00-0.05 | Appendix F2: Photo 71, 72 |
| SS49 | 14/07/2022 | 0.15-0.20 | FILL: sandy GRAVEL, brown, fine to coarse rounded to sub-rounded and sub-angular gravel (ash, mixed origin), fine to coarse grained sand, trace low plasticity clay. | SS49/0.15-0.20 | - |
| SS50 | 14/07/2022 | 0.00-0.05 | FILL: clayey gravelly SAND, brown, fine to coarse grained sand, low plasticity clay, fine to coarse sub-rounded to sub-angular gravel (ash, mixed origin). | SS50/0.00-0.05 | Appendix F2: Photo 73-77 |
| SS50 | 14/07/2022 | 0.15-0.20 | FILL: clayey gravelly SAND, brown, fine to coarse grained sand, low plasticity clay, fine to coarse sub-rounded to sub-angular gravel (ash, mixed origin). | SS50/0.15-0.20 | Appendix F2: Photo 73-77 |
| SS51 | 14/07/2022 | 0.00-0.05 | FILL: gravelly SAND, brown, fine to coarse grained sand, fine to coarse sub-rounded to sub-angular gravel (ash, mixed origin), trace low plasticity clay. | SS51/0.00-0.05 | Appendix F2: Photo 78, 79 |
| SS51 | 14/07/2022 | 0.15-0.20 | FILL: sandy GRAVEL, dark-grey, black, white and grey, fine to coarse sub-angular gravel (ash), fine to coarse grained sand. | SS51/0.15-0.20 | - |
| SS52 | 11/07/2022 | 0.00-0.05 | FILL: clayey gravelly SAND, brown, fine to coarse grained sand, low plasticity clay, fine to coarse sub-rounded to rounded gravel. | SS52/0.00-0.05 | Appendix F2: Photo 80, 81 |
| SS52 | 11/07/2022 | 0.10-0.15 | FILL: clayey gravelly SAND, brown, fine to coarse grained sand, low plasticity clay, fine to coarse sub rounded to rounded gravel. | SS52/0.10-0.15 | Appendix F2: Photo 82, 83 |
| SS53 | 11/07/2022 | 0.00-0.05 | FILL: silty gravelly SAND, brown, fine to coarse grained sand, fine to coarse sub-rounded to rounded gravel, rootlets, nails, plastic pieces. | SS53/0.00-0.05 | - |
| SS53 | 11/07/2022 | 0.15-0.20 | FILL: gravelly SAND, dark-grey, black, white and grey, fine to coarse grained sand, fine to coarse sub-rounded to sub-angular gravel (ash). | SS53/0.15-0.20 | - |
| SS54 | 11/07/2022 | 0.00-0.05 | FILL: gravelly SAND, pale-brown, brown, fine to coarse grained sand, fine to medium sub-rounded to rounded gravel, rootlets, leaves, string, concrete rubble. | SS54/0.00-0.05 | Appendix F2: Photo 84 |

| | | | | | |
|---|---|---|---|---|---|
| SS54 | 11/07/2022 | 0.15-0.20 | FILL: gravelly SAND, dark-grey, black, white and grey, fine to coarse grained sand, fine to coarse sub-rounded to sub-angular gravel (ash). | SS54/0.15-0.20 | Appendix F2: Photo 85 |
| SS55 | 12/07/2022 | 0.00-0.05 | FILL: silty gravelly SAND, brown, fine to coarse grained sand, fine to medium sub-rounded to rounded gravel, rootlets, grass, steel pieces, concrete rubble. | SS55/0.00-0.05 | Appendix F2: Photo 86-89 |
| SS55 | 12/07/2022 | 0.15-0.20 | FILL: silty gravelly SAND, brown, fine to coarse grained sand, fine to medium sub-rounded to rounded gravel, rootlets, grass, steel pieces, concrete rubble. | SS55/0.15-0.20 | Appendix F2: Photo 86-89 |

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Member of the Surbana Jurong Group

# PHOTOIONISATION DETECTOR

| | | | |
|---|---|---|---|
| **Project:** | Cowra DSI | **Project No:** | 30013211 |
| **Location:** | Cowra Hospital | **Date:** | 11/07/2022-14/07/2022 |
| **Feature:** | - | **Tested By:** | PV |

**Equipment:** Photoionisation Detector
**Equip. ID:** PID S/N: 590-00685 **Calibrated on:** Daily by PV
Cylinder No.: 950064673

**Is calibration certificate attached?:** Yes. Field calibration summary below.

**Calibration reading following field calibration:**
11/07/2022 100.1ppm
12/07/2022 100.1ppm
13/07/2022 100.1ppm
14/07/2022 100.1ppm

Method: Place portion of sample in separate ziplock bag and allowing to sit for 15 minutes. Pierce and record maximum PID result (ppmv) on fieldnotes. Discard sample onsite.

Table H2. PID field record.

| Location ID | Depth (m) | PID Screen Date | PID result (ppmv) | Comments (ie. Odours, staining, fill) |
|---|---|---|---|---|
| BH12 | 0.0-0.1 | 11/07/2022 | 4.5 | No odour or staining observed at the time of sampling. |
| BH12 | 0.3-0.5 | 11/07/2022 | 5.0 | No odour or staining observed at the time of sampling. |
| BH12 | 0.5-0.6 | 11/07/2022 | 5.3 | No odour or staining observed at the time of sampling. |
| BH12 | 0.9-1.0 | 11/07/2022 | 4.6 | No odour or staining observed at the time of sampling. |
| BH12 | 1.9-2.0 | 11/07/2022 | 6.8 | No odour or staining observed at the time of sampling. |
| BH12 | 2.9-3.0 | 11/07/2022 | 4.8 | No odour or staining observed at the time of sampling. |
| BH12 | 3.9-4.0 | 11/07/2022 | 5.6 | No odour or staining observed at the time of sampling. |
| BH12 | 4.9-5.0 | 11/07/2022 | 3.8 | No odour or staining observed at the time of sampling. |
| SS46 | 0.00-0.05 | 11/07/2022 | 3.0 | No odour or staining observed at the time of sampling. |
| SS46 | 0.15-0.20 | 11/07/2022 | 3.6 | No odour or staining observed at the time of sampling. |
| SS45 | 0.00-0.05 | 11/07/2022 | 3.3 | No odour or staining observed at the time of sampling. |
| SS45 | 0.15-0.20 | 11/07/2022 | 4.3 | No odour or staining observed at the time of sampling. |
| SS52 | 0.00-0.05 | 11/07/2022 | 33.6 | No odour or staining observed at the time of sampling. |
| SS52 | 0.10-0.15 | 11/07/2022 | 31.0 | No odour or staining observed at the time of sampling. |
| SS53 | 0.00-0.05 | 11/07/2022 | 13.6 | No odour or staining observed at the time of sampling. |
| SS53 | 0.15-0.20 | 11/07/2022 | 30.4 | No odour or staining observed at the time of sampling. |
| SS54 | 0.00-0.05 | 11/07/2022 | 32.1 | No odour or staining observed at the time of sampling. |
| SS54 | 0.15-0.20 | 11/07/2022 | 36.3 | No odour or staining observed at the time of sampling. |
| BH29 | 0.1-0.2 | 11/07/2022 | 38.6 | No odour or staining observed at the time of sampling. |
| BH29 | 0.5-0.6 | 12/07/2022 | 2.7 | No odour or staining observed at the time of sampling. |
| BH29 | 0.9-1.0 | 12/07/2022 | 3.4 | No odour or staining observed at the time of sampling. |
| BH29 | 1.9-2.0 | 12/07/2022 | 0.5 | No odour or staining observed at the time of sampling. |
| BH29 | 2.9-3.0 | 12/07/2022 | 0.5 | No odour or staining observed at the time of sampling. |
| BH29 | 3.9-4.0 | 12/07/2022 | 0.6 | No odour or staining observed at the time of sampling. |
| BH29 | 4.9-5.0 | 12/07/2022 | 0.5 | No odour or staining observed at the time of sampling. |
| BH29 | 5.9-6.0 | 12/07/2022 | 0.5 | No odour or staining observed at the time of sampling. |
| BH29 | 6.9-7.0 | 12/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| HA39 | 0.0-0.1 | 12/07/2022 | 0.4 | No odour or staining observed at the time of sampling. |
| HA39 | 0.3-0.5 | 12/07/2022 | 0.5 | No odour or staining observed at the time of sampling. |
| BH32 | 0.1-0.2 | 12/07/2022 | 0.4 | No odour or staining observed at the time of sampling. |
| BH32 | 0.4-0.5 | 12/07/2022 | 0.4 | No odour or staining observed at the time of sampling. |
| BH32 | 0.6-0.7 | 12/07/2022 | 0.3 | No odour or staining observed at the time of sampling. |
| BH32 | 1.0-1.1 | 12/07/2022 | 0.6 | No odour or staining observed at the time of sampling. |
| BH32 | 1.9-2.0 | 12/07/2022 | 0.8 | No odour or staining observed at the time of sampling. |
| BH32 | 2.9-3.0 | 12/07/2022 | 0.8 | No odour or staining observed at the time of sampling. |
| BH32 | 3.9-4.0 | 12/07/2022 | 0.9 | No odour or staining observed at the time of sampling. |
| BH32 | 4.9-5.0 | 12/07/2022 | 0.6 | No odour or staining observed at the time of sampling. |
| BH32 | 5.9-6.0 | 12/07/2022 | 0.9 | No odour or staining observed at the time of sampling. |
| BH32 | 6.9-7.0 | 12/07/2022 | 0.8 | No odour or staining observed at the time of sampling. |

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Member of the Surbana Jurong Group

# PHOTOIONISATION DETECTOR

| | | | |
|---|---|---|---|
| **Project:** | Cowra DSI | **Project No:** | 30013211 |
| **Location:** | Cowra Hospital | **Date:** | 11/07/2022-14/07/2022 |
| **Feature:** | - | **Tested By:** | PV |

**Equipment:** Photoionisation Detector
**Equip. ID:** PID S/N: 590-00685 **Calibrated on:** Daily by PV
Cylinder No.: 950064673

**Is calibration certificate attached?:** Yes. Field calibration summary below.

**Calibration reading following field calibration:**
11/07/2022 100.1ppm
12/07/2022 100.1ppm
13/07/2022 100.1ppm
14/07/2022 100.1ppm

Method: Place portion of sample in separate ziplock bag and allowing to sit for 15 minutes. Pierce and record maximum PID result (ppmv) on fieldnotes. Discard sample onsite.

Table H2. PID field record.

| Location ID | Depth (m) | PID Screen Date | PID result (ppmv) | Comments (ie. Odours, staining, fill) |
|---|---|---|---|---|
| HA31 | 0.1-0.2 | 12/07/2022 | 0.4 | No odour or staining observed at the time of sampling. |
| SS55 | 0.00-0.05 | 12/07/2022 | 3.8 | No odour or staining observed at the time of sampling. |
| SS55 | 0.15-0.20 | 12/07/2022 | 4.2 | No odour or staining observed at the time of sampling. |
| BH30 | 0.0-0.1 | 12/07/2022 | 3.6 | No odour or staining observed at the time of sampling. |
| BH30 | 0.3-0.4 | 12/07/2022 | 4.5 | No odour or staining observed at the time of sampling. |
| BH30 | 0.9-1.0 | 12/07/2022 | 7.3 | No odour or staining observed at the time of sampling. |
| BH30 | 1.9-2.0 | 12/07/2022 | 8.8 | No odour or staining observed at the time of sampling. |
| BH30 | 2.9-3.0 | 12/07/2022 | 10.2 | No odour or staining observed at the time of sampling. |
| BH30 | 3.9-4.0 | 12/07/2022 | 6.1 | No odour or staining observed at the time of sampling. |
| BH33 | 0.0-0.1 | 12/07/2022 | 3.4 | No odour or staining observed at the time of sampling. |
| BH33 | 0.3-0.4 | 12/07/2022 | 4.5 | No odour or staining observed at the time of sampling. |
| BH33 | 0.9-1.0 | 12/07/2022 | 5.9 | No odour or staining observed at the time of sampling. |
| BH33 | 1.9-2.0 | 12/07/2022 | 3.7 | No odour or staining observed at the time of sampling. |
| HA40 | 0.15-0.25 | 12/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| TP28 | 0.0-0.1 | 13/07/2022 | 1.9 | No odour or staining observed at the time of sampling. |
| TP28 | 0.3-0.4 | 13/07/2022 | 1.9 | No odour or staining observed at the time of sampling. |
| TP28 | 0.6-0.7 | 13/07/2022 | 2.1 | No odour or staining observed at the time of sampling. |
| TP11 | 0.0-0.1 | 13/07/2022 | 2.1 | No odour or staining observed at the time of sampling. |
| TP11 | 0.3-0.4 | 13/07/2022 | 2.0 | No odour or staining observed at the time of sampling. |
| TP11 | 0.5-0.6 | 13/07/2022 | 2.1 | No odour or staining observed at the time of sampling. |
| TP20 | 0.0-0.1 | 13/07/2022 | 2.4 | No odour or staining observed at the time of sampling. |
| TP20 | 0.3-0.4 | 13/07/2022 | 2.0 | No odour or staining observed at the time of sampling. |
| TP20 | 0.9-1.0 | 13/07/2022 | 2.6 | No odour or staining observed at the time of sampling. |
| TP20 | 1.9-2.0 | 13/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| TP20 | 2.4-2.5 | 13/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| TP13 | 0.0-0.1 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP13 | 0.25-0.35 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP13 | 0.4-0.5 | 13/07/2022 | 2.7 | No odour or staining observed at the time of sampling. |
| TP13 | 0.9-1.0 | 13/07/2022 | 1.8 | No odour or staining observed at the time of sampling. |
| TP14 | 0.0-0.1 | 13/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| TP14 | 0.3-0.4 | 13/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| TP14 | 0.7-0.8 | 13/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| TP19 | 0.0-0.1 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP19 | 0.3-0.4 | 13/07/2022 | 1.9 | No odour or staining observed at the time of sampling. |
| TP19 | 1.0-1.1 | 13/07/2022 | 3.1 | No odour or staining observed at the time of sampling. |
| TP19 | 1.2-1.3 | 13/07/2022 | 3.1 | No odour or staining observed at the time of sampling. |
| TP16 | 0.0-0.1 | 13/07/2022 | 2.7 | No odour or staining observed at the time of sampling. |
| TP16 | 0.3-0.4 | 13/07/2022 | 1.8 | No odour or staining observed at the time of sampling. |
| TP16 | 0.7-0.8 | 13/07/2022 | 2.0 | No odour or staining observed at the time of sampling. |

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Member of the Surbana Jurong Group

# PHOTOIONISATION DETECTOR

| | | | |
|---|---|---|---|
| **Project:** | Cowra DSI | **Project No:** | 30013211 |
| **Location:** | Cowra Hospital | **Date:** | 11/07/2022-14/07/2022 |
| **Feature:** | - | **Tested By:** | PV |

**Equipment:** Photoionisation Detector
**Equip. ID:** PID S/N: 590-00685 **Calibrated on:** Daily by PV
Cylinder No.: 950064673

**Is calibration certificate attached?:** Yes. Field calibration summary below.

**Calibration reading following field calibration:**
11/07/2022 100.1ppm
12/07/2022 100.1ppm
13/07/2022 100.1ppm
14/07/2022 100.1ppm

Method: Place portion of sample in separate ziplock bag and allowing to sit for 15 minutes. Pierce and record maximum PID result (ppmv) on fieldnotes. Discard sample onsite.

Table H2. PID field record.

| Location ID | Depth (m) | PID Screen Date | PID result (ppmv) | Comments (ie. Odours, staining, fill) |
|---|---|---|---|---|
| TP15 | 0.0-0.1 | 13/07/2022 | 2.6 | No odour or staining observed at the time of sampling. |
| TP15 | 0.3-0.4 | 13/07/2022 | 2.8 | No odour or staining observed at the time of sampling. |
| TP15 | 0.5-0.6 | 13/07/2022 | 2.4 | No odour or staining observed at the time of sampling. |
| TP18 | 0.0-0.1 | 13/07/2022 | 4.0 | No odour or staining observed at the time of sampling. |
| TP18 | 0.3-0.4 | 13/07/2022 | 0.2 | No odour or staining observed at the time of sampling. |
| TP18 | 0.5-0.6 | 13/07/2022 | 3.3 | No odour or staining observed at the time of sampling. |
| TP17 | 0.0-0.1 | 13/07/2022 | 3.0 | No odour or staining observed at the time of sampling. |
| TP17 | 0.3-0.4 | 13/07/2022 | 3.0 | No odour or staining observed at the time of sampling. |
| TP17 | 0.7-0.8 | 13/07/2022 | 3.8 | No odour or staining observed at the time of sampling. |
| TP23 | 0.0-0.1 | 13/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| TP23 | 0.20-0.25 | 13/07/2022 | - | No odour or staining observed at the time of sampling. |
| TP23 | 0.3-0.4 | 13/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| TP23 | 0.6-0.7 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP24 | 0.0-0.1 | 13/07/2022 | 4.3 | No odour or staining observed at the time of sampling. |
| TP24 | 0.3-0.4 | 13/07/2022 | 3.2 | No odour or staining observed at the time of sampling. |
| TP24 | 0.9-1.0 | 13/07/2022 | 2.9 | No odour or staining observed at the time of sampling. |
| TP27 | 0.0-0.1 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP27 | 0.3-0.4 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP27 | 1.0-1.1 | 13/07/2022 | 1.5 | No odour or staining observed at the time of sampling. |
| TP26 | 0.0-0.1 | 13/07/2022 | 2.3 | No odour or staining observed at the time of sampling. |
| TP26 | 0.1-0.2 | 13/07/2022 | 2.1 | No odour or staining observed at the time of sampling. |
| TP26 | 0.3-0.4 | 13/07/2022 | 1.5 | No odour or staining observed at the time of sampling. |
| TP25 | 0.0-0.1 | 13/07/2022 | 3.1 | No odour or staining observed at the time of sampling. |
| TP25 | 0.3-0.4 | 13/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| TP25 | 0.5-0.6 | 13/07/2022 | 2.6 | No odour or staining observed at the time of sampling. |
| TP25 | 0.8-0.9 | 13/07/2022 | 3.2 | No odour or staining observed at the time of sampling. |
| TP21 | 0.0-0.1 | 13/07/2022 | 2.1 | No odour or staining observed at the time of sampling. |
| TP21 | 0.2-0.3 | 13/07/2022 | 3.1 | No odour or staining observed at the time of sampling. |
| TP21 | 0.4-0.5 | 13/07/2022 | 2.7 | No odour or staining observed at the time of sampling. |
| TP22 | 0.0-0.1 | 13/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| TP22 | 0.3-0.4 | 13/07/2022 | 2.8 | No odour or staining observed at the time of sampling. |
| TP22 | 0.5-0.6 | 13/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| HA36 | 0.0-0.1 | 14/07/2022 | 2.4 | No odour or staining observed at the time of sampling. |
| HA36 | 0.4-0.5 | 14/07/2022 | 1.8 | No odour or staining observed at the time of sampling. |
| HA37 | 0.0-0.1 | 14/07/2022 | 2.5 | No odour or staining observed at the time of sampling. |
| HA37 | 0.4-0.5 | 14/07/2022 | 2.1 | No odour or staining observed at the time of sampling. |
| HA38 | 0.0-0.1 | 14/07/2022 | 3.0 | No odour or staining observed at the time of sampling. |
| HA38 | 0.4-0.5 | 14/07/2022 | 3.2 | No odour or staining observed at the time of sampling. |
| HA34 | 0.0-0.1 | 14/07/2022 | 9.1 | No odour or staining observed at the time of sampling. |

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20 Berry St, North Sydney NSW 2060
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Member of the Surbana Jurong Group

# PHOTOIONISATION DETECTOR

| | | | |
|---|---|---|---|
| **Project:** | Cowra DSI | **Project No:** | 30013211 |
| **Location:** | Cowra Hospital | **Date:** | 11/07/2022-14/07/2022 |
| **Feature:** | - | **Tested By:** | PV |

**Equipment:** Photoionisation Detector
**Equip. ID:** PID S/N: 590-00685 **Calibrated on:** Daily by PV
Cylinder No.: 950064673

**Is calibration certificate attached?:** Yes. Field calibration summary below.

**Calibration reading following field calibration:**
11/07/2022 100.1ppm
12/07/2022 100.1ppm
13/07/2022 100.1ppm
14/07/2022 100.1ppm

Method: Place portion of sample in separate ziplock bag and allowing to sit for 15 minutes. Pierce and record maximum PID result (ppmv) on fieldnotes. Discard sample onsite.

Table H2. PID field record.

| Location ID | Depth (m) | PID Screen Date | PID result (ppmv) | Comments (ie. Odours, staining, fill) |
|---|---|---|---|---|
| HA34 | 0.4-0.5 | 14/07/2022 | 14.7 | No odour or staining observed at the time of sampling. |
| HA35 | 0.0-0.1 | 14/07/2022 | 16.3 | No odour or staining observed at the time of sampling. |
| HA35 | 0.3-0.4 | 14/07/2022 | 8.4 | No odour or staining observed at the time of sampling. |
| SS47 | 0.00-0.05 | 14/07/2022 | 3.6 | No odour or staining observed at the time of sampling. |
| SS48 | 0.00-0.05 | 14/07/2022 | 15.2 | No odour or staining observed at the time of sampling. |
| SS48 | 0.15-0.20 | 14/07/2022 | 13.0 | No odour or staining observed at the time of sampling. |
| SS50 | 0.00-0.05 | 14/07/2022 | 7.9 | No odour or staining observed at the time of sampling. |
| SS50 | 0.15-0.20 | 14/07/2022 | 6.8 | No odour or staining observed at the time of sampling. |
| SS51 | 0.00-0.05 | 14/07/2022 | 4.3 | No odour or staining observed at the time of sampling. |
| SS51 | 0.05-0.10 | 14/07/2022 | 5.2 | No odour or staining observed at the time of sampling. |
| HA41 | 0..0-0.1 | 14/07/2022 | 3.2 | No odour or staining observed at the time of sampling. |
| HA41 | 0.4-0.5 | 14/07/2022 | 3.4 | No odour or staining observed at the time of sampling. |
| SS49 | 0.00-0.05 | 14/07/2022 | 1.6 | No odour or staining observed at the time of sampling. |
| SS49 | 0.15-0.20 | 14/07/2022 | 4.5 | No odour or staining observed at the time of sampling. |
| HA44 | 0.0-0.1 | 14/07/2022 | 5.4 | No odour or staining observed at the time of sampling. |
| HA44 | 0.2-0.3 | 14/07/2022 | 4.1 | No odour or staining observed at the time of sampling. |
| HA43 | 0.0-0.1 | 14/07/2022 | 3.5 | No odour or staining observed at the time of sampling. |
| HA43 | 0.3-0.4 | 14/07/2022 | 4.4 | No odour or staining observed at the time of sampling. |
| HA42 | 0.0-0.1 | 14/07/2022 | 3.9 | No odour or staining observed at the time of sampling. |
| | | | | |

**Comments:**

**Abbreviations:**

| | |
|---|---|
| ppmv | parts per million (volume) |
| PID | Photoionisation detector |

125mm dia
5 L/m
2.783m
14.1933 L / 1 well vol
42.579 / 3 well vol

# GROUNDWATER SAMPLING RECORD SHEET

DATE: 19/07/2022 LOCATION: Contra Hospital PROJECT: 300132211 PS1

| | | | |
|---|---|---|---|
| **Bore Name** | BH08 | **Stickup (m)** | -0.11 mAGL |
| **Standing Water Level** | 3.411 | **Ref Point** mTOC / mTOM / mBMP | |
| **Sampling Method** | Bailer / Pump / Other | FOR: | 6.194 mBTOC |

| Volume (L) | Time | pH | EC (µS/cm) | ~~EC Units~~ SPC (µS/cm) | Temp (°C) | DO (ppm) | ORP EH (mV) | Observation/Comments (e.g. colour, clarity, odour) |
|---|---|---|---|---|---|---|---|---|
| 12 | 1031 | – | – | – | – | – | – | SWL - 5.73mBTOC, slt. brown, no |
| 13 | 1034 | 6.72 | 1967 | 2422 | 15.0 | 3.22 | 200.7 | WELL DRY slt. brown, no |
| – | 1328 | – | – | – | – | – | – | SWL - 5.624 mBTOC |
| – | 1340 | 7.18 | 1982 | 2307 | 17.1 | 2.21 | 177.1 | (after sampling) |
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|---|---|---|---|---|---|---|---|
| **Sample ID** | BH08 | **Duplicate ID** | – | **Triplicate ID** | – | **Lab Sent To** | Eurofins |

*mTOC = meters Top Of Casing, mTOM = meters Top Of Monument, mBMP = meters Below Measuring Point

* Stickup is the height of the top of monument / top of casing / measuring point above ground level

2 amber UP, UF
4 vials P, UF
2 metals P, F

# GROUNDWATER SAMPLING RECORD SHEET

DATE: 19/07/2022 LOCATION: Sonya Hospital PROJECT: 30013211 0J1

125mm dia
5 L / 1m
0.079 m
10 5774 L/well vol.
3 x 5774 L/small vol

| | | | |
|---|---|---|---|
| **Bore Name** | BH29 | **Stickup (m)** | -0.12 mbgl |
| **Standing Water Level** | 4.93 | **Ref Point** mTOC / mTOM / mBMP | |
| **Sampling Method** | Bailer / Pump / Other | | |

EOH: 7.007 mbTOC

| Volume (L) | Time | pH | EC ~~µS/cm~~ | EC Units | Temp (°C) | DO ppm | EH ppm mV | Observation/Comments (e.g. colour, clarity, odour) |
|---|---|---|---|---|---|---|---|---|
| 9 | 0951 | 5.50 | 599 | 7.59 | 13.5 | 5.19 | 232.9 | SWL - 6.1178 mbTOC, MT, mod brown to |
| 10 | 0953 | – | – | – | – | – | – | WELL DRY, MT, mod-brown, no |
| – | 1300 | – | – | – | – | – | – | WL - 5.80 mbTOC |
| – | 1311 | 5.45 | 354.5 | 415.0 | 17.8 | 5.48 | 193.1 | (After sampling) |
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|---|---|---|---|---|---|---|---|
| **Sample ID** | BH29 | **Duplicate ID** | – | **Triplicate ID** | – | **Lab Sent To** | Eurofins |

*mTOC = meters Top Of Casing, mTOM = meters Top Of Monument, mBMP = meters Below Measuring Point

* Stickup is the height of the top of monument / top of casing / measuring point above ground level

| | |
|---|---|
| 2 amber | UP, UF |
| 4 vials | P, UF |
| 2 metals | P, F |

125mm dia
5 L/m

2.881 m

14.603 L/well vol.
14.0793 L/3 well vol.

# GROUNDWATER SAMPLING RECORD SHEET

DATE: 19/07/2022 LOCATION: Cowra Hospital PROJECT: 300 13 211 DS 1

| | | | |
|---|---|---|---|
| **Bore Name** | BH32 | **Stickup (m)** | -0.10 mbgl |
| **Standing Water Level** | 5.582 | **Ref Point** mTOC / mTOM / mBMP | |
| **Sampling Method** | Bailer / Pump / Other | | |

EOH: 8.463 mbTOC ± 3% C (mS/cm) ± 5% SPC (µS/cm) ± 10% ± 10mV ORP (mV)

| Volume (L) | Time | pH ±0.05 | EC | ~~EC Units~~ | Temp (°C) | DO (ppm) | EH | Observation/Comments (e.g. colour, clarity, odour) |
|---|---|---|---|---|---|---|---|---|
| 26 | 1157 | 6.82 | 843 | 998 | 16.8 | 1.79 | 156.5 | HT, red-brown, v lo. |
| 30 | 1158 | 6.79 | 712 | 912 | 19.1 | 3.05 | 166.5 | " " |
| 34 | 1201 | 6.80 | 778 | 886 | 18.6 | 3.66 | 171.8 | " " |
| 38 | 1204 | 6.79 ✓ | 772 ✓ | 582 ✓ | 18.5 | 3.66 ✓ | 178.5 ✓ | " " |
| 42 | 1208 | 6.81 ✓ | 768 ✓ | 874 ✓ | 18.7 | 3.58 ✓ | 178.3 ✓ | " " |
| 46 | 1211 | 6.77 ✓ | 762 ✓ | 861 ✓ | 19.1 | 3.93 ✓ | 184.5 | " " |
| | | | | | | | | 5.62m bTOC ← WL after sampling. |
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|---|---|---|---|---|---|---|---|
| **Sample ID** | BH32 | **Duplicate ID** | QA09 | **Triplicate ID** | QA09A | **Lab Sent To** | Eurofins |

*mTOC = meters Top Of Casing, mTOM = meters Top Of Monument, mBMP = meters Below Measuring Point

* Stickup is the height of the top of monument / top of casing / measuring point above ground level

PRIMARY SAMPLE:
- 2 amber UP, UF
- 4 vials P, UF
- 2 metals P, F

~~DUP / TRIP~~
- 1 amber UP, UF
- 2 vials P, UF
- 1 metals P, F

# Appendix I. Analytical Summary Tables

| | Inorganics | | | | Coal Tar | Asbestos | | BTEX | | | | | | VOCs | TPH | | | | | TRH | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Conductivity (1:5 aqueous extract) | Moisture Content | Moisture Content (dried @ 103°C) | pH (1:5 aqueous extract) | Coal Tar (D = Detected; ND = Not Detected) | Asbestos ID (D = Detected; ND = Not Detected) | Asbestos | Benzene | Toluene | Ethylbenzene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | C6-C10 (F1 minus BTEX) | C6-C10 Fraction (F1) | >C10-C16 Fraction (F2) | >C10-C16 Fraction (F2 minus Naphthalene) | >C16-C34 Fraction (F3) | >C34-C40 Fraction (F4) | >C10-C40 Fraction (Sum) |
| | µS/cm | % | % | - | - | Comment | %w/w | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 10 | 0.1 | 1 | 0.1 | | | | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.5 | 10 | 20 | 50 | 50 | 50 | 10 | 10 | 50 | 50 | 100 | 100 | 50 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | | | | | | D | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | | | | | | D | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | | | | | | | | | | | | | | 170 | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil (0 to 2m) | | | | | | | | 50 | 85 | 70 | | | 105 | | | | | | | 180 | | 120 | 120 | 300 | 2,800 | |
| SS EILs (Cowra) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | **3.3** | - | **D** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | **3.8** | - | **D** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **19** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | **0.4** | **0.3** | **0.7** | *<0.5* | *<20* | *<20* | **54** | **70** | **124** | *<20* | *<20* | *<50* | *<50* | **100** | *<100* | **100** |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | **15** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | - | - | **12** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | - | **14.6** | - | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | **21** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | **13** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | **7.9** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | **11** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | **13** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | **12** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | **10.6** | - | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | **13** | - | **11** | **8** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **77** | - | **12** | **7** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | **13** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | - | - | **20** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **12** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | **11** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | - | - | **14** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **7.1** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | **68** | **68** | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | **16** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | **5.9** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | **54** | **54** | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **18** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | **0.2** | **0.3** | **0.2** | **0.5** | *<0.5* | *<20* | **26** | **72** | **66** | **164** | *<20* | *<20* | *<50* | *<50* | **130** | *<100* | **130** |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **12** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **12** | - | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **83** | **51** | **134** | *<20* | *<20* | *<50* | *<50* | **130** | *<100* | **130** |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **19** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **23** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **11** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **9.8** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **19** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **5.4** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **10** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **9.6** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | **14** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | - | - | **14** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **13** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **15** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **19** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **18** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **16** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | **17** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | **8.9** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **14** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | **19** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **16** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | **34** | **150** | **160** | **344** | *<20* | *<20* | *<50* | *<50* | **260** | **110** | **370** |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | **14** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **11** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **290** | **270** | **560** | *<20* | *<20* | *<50* | *<50* | **500** | **130** | **630** |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **27** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **24** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | **24** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **8.4** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | **6.9** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **27** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **16** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | **16** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **10** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **4.7** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | **22** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **4.8** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | **4.8** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | **3.7** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | **2.2** | - | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | **14** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **62** | **59** | **121** | *<20* | *<20* | *<50* | *<50* | **100** | *<100* | **100** |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **39** | - | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **24** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **15** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | **11** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | - | - | **20** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **11** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **13** | - | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **19** | - | **13** | **7.9** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **63** | *<50* | **63** | *<20* | *<20* | *<50* | *<50* | **110** | *<100* | **110** |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **10** | - | - | ND | *<0.01* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **16** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | - | - | **10** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | **17** | - | **14** | **7.2** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **9.9** | - | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **16** | - | **21** | **6.7** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP18/0.4-0.5 ENM** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | **10** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **13** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.2 ACM** | **13/07/2022** | **907569** | **Soil** | **0.2** | - | - | - | - | - | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **16** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **72** | *<50* | **72** | *<20* | *<20* | *<50* | *<50* | **120** | *<100* | **120** |

| | | | | | Inorganics | | | | Coal Tar | Asbestos | | BTEX | | | | | | VOCs | TPH | | | | | TRH | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Conductivity (1:5 aqueous extract) | Moisture Content | Moisture Content (dried @ 103°C) | pH (1:5 aqueous extract) | Coal Tar (D = Detected; ND = Not Detected) | Asbestos ID (D = Detected; ND = Not Detected) | Asbestos | Benzene | Toluene | Ethylbenzene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | C6-C10 (F1 minus BTEX) | C6-C10 Fraction (F1) | >C10-C16 Fraction (F2) | >C10-C16 Fraction (F2 minus Naphthalene) | >C16-C34 Fraction (F3) | >C34-C40 Fraction (F4) | >C10-C40 Fraction (Sum) |
| | | | | | µS/cm | % | % | - | - | Comment | %w/w | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | - | - | **14** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **76** | *<50* | **76** | *<20* | *<20* | *<50* | *<50* | **120** | *<100* | **120** |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | **11** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **22** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **19** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | **17** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | - | **36.1** | - | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | **18** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | - | - | **16** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **4.5** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | **6.1** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | **49** | - | **6.1** | **8.1** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **4** | - | **D** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **3.8** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **78** | - | **6.8** | **9.3** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **120** | **56** | **176** | *<20* | *<20* | *<50* | *<50* | **180** | *<100* | **180** |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | - | - | **18** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **20** | - | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<10* | - | **15** | **7.1** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **10** | - | **16** | **7** | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | **26** | - | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **24** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **93** | - | **16** | **9.1** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **51** | *<50* | **51** | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | **87** | - | **16** | **9** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **82** | *<50* | **82** | *<20* | *<20* | *<50* | *<50* | **110** | *<100* | **110** |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **22** | - | - | ND | *<0.01* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **43** | - | **13** | **8.9** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **24** | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **10** | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | **28** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | 78% | 78% | 77% | 76% | 79% | 78% | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | - | - | - | - | *<20* | *<20* | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PAH | | | | | | | | | | | | | | | | | | | | Halogenated Benzenes | | | | | | |
| | | | | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(a) pyrene TCLP | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene |
| | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | | | | | | | | | | | | | | | | | | | | | | | 40 | 40 | 40 | 4,000 | | | | | | | 80 |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 300 | | | | | | | 10 |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | | | | | | | | | | | | | | | | | | | | 170 | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil (0 to 2m) | | | | | 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS EILs (Cowra) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <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 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <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 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | **0.6** | **0.8** | - | **0.7** | <1 | **0.8** | **0.8** | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | **1.3** | **1.6** | **1** | **3.7** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 |
| **TP18/0.4-0.5 ENM** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <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 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.2 ACM** | **13/07/2022** | **907569** | **Soil** | **0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | **0.6** | <0.5 | **0.7** | <0.5 | <0.5 | <0.5 | <0.5 | **0.8** | **0.6** | **1.2** | <0.5 | **2.1** | - | - | - | - | - | - | - | - |

| | | | | | PAH | | | | | | | | | | | | | | | | | | | | Halogenated Benzenes | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(a) pyrene TCLP | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | **0.5** | <0.5 | <0.5 | **0.7** | <0.5 | **0.8** | <0.5 | <0.5 | <0.5 | <0.5 | **0.7** | **0.6** | **1.2** | <0.5 | **2.7** | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.5 |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.5 |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | + | + | - | - | - | - | <0.05 |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | **2.8** | **2.5** | | **2.4** | <2 | **2.3** | **3.2** | **0.5** | <10 | <0.5 | **1.3** | <0.5 | <5 | <10 | **3.9** | **3.9** | **3.9** | **15** | - | - | - | - | - | - | - | <0.05 |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <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 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <1 | <2 | **0.6** | **1.2** | <0.5 | <1 | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | **1** | **0.6** | - | **0.6** | <0.5 | **0.7** | **1** | <0.5 | <2 | <0.5 | <0.9 | <0.5 | <2 | <2 | **1.1** | **1.4** | **0.8** | **3.9** | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.9 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <0.05 |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | | | | Metals | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Arsenic | Arsenic TCLP | Cadmium | Chromium (III+VI) | Copper | Lead | Lead TCLP | Mercury | Nickel | Zinc | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | Chlordane | Chlordane (cis) | Chlordane (trans) | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene |
| | | | | | | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | 2 | | 0.4 | 2 | 5 | 5 | | 0.1 | 2 | 5 | 0.1 | 0.1 | 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 | 0.5 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | | | | | | 3,000 | | 900 | | 240,000 | 1,500 | | 730 | 6,000 | 400,000 | | | | | | 45 | | 530 | | | | | | | 3,600 | | 2,000 | | | | 100 | | | | 50 | | 2,500 | 160 |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | | | | | | 300 | | 90 | | 17,000 | 600 | | 80 | 1,200 | 30,000 | | | | | | 10 | | 70 | | | | | | 400 | | 340 | | | | 20 | | | | 10 | | 400 | 30 |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | | | | | | 100 | | | | | | | | | | | | | | | | | | | | | | 180 | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil (0 to 2m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS EILs (Cowra) | | | | | | | | | | 139.8 | | | | 119.5 | 324 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | **160** | | <0.4 | **36** | **49** | **20** | - | **0.3** | **28** | **30** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | **37** | - | <0.4 | **34** | **19** | **27** | - | **0.2** | **17** | **35** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | <5 | - | <1 | **36** | **13** | **29** | - | <0.1 | **11** | **35** | - | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | **2.2** | - | <0.4 | **18** | **16** | **47** | - | **0.2** | **12** | **130** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | <2 | - | <0.4 | **20** | **28** | **110** | | **0.4** | **9.1** | **470** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | **2.7** | - | <0.4 | **43** | **15** | **15** | - | <0.1 | **17** | **40** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <2 | - | <0.4 | **9.6** | **10** | **11** | - | <0.1 | **5.3** | **33** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <2 | - | <0.4 | **39** | **14** | **7.6** | - | <0.1 | **17** | **31** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | <2 | - | <0.4 | **36** | **12** | **10** | - | <0.1 | **17** | **36** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | <5 | - | <1 | **28** | **10** | **21** | - | <0.1 | **11** | **50** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | **2.5** | - | <0.4 | **32** | **13** | **15** | - | <0.1 | **13** | **29** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **4.1** | - | <0.4 | **41** | **15** | **12** | - | <0.1 | **22** | **38** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | **4.1** | - | <0.4 | **43** | **16** | **20** | - | <0.1 | **20** | **40** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | **3.2** | - | <0.4 | **21** | **22** | **51** | - | <0.1 | **12** | **170** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | **2.2** | - | <0.4 | **31** | **13** | **24** | - | **0.1** | **15** | **66** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | **2.3** | - | <0.4 | **25** | **13** | **33** | - | <0.1 | **13** | **60** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <2 | - | <0.4 | **21** | **11** | **27** | - | <0.1 | **10** | **52** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **89** | - | - | - | **210** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | **7.4** | - | - | - | **20** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **7.3** | - | - | - | **24** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | **110** | - | - | - | **150** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **51** | - | - | - | **78** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | **9.4** | - | - | - | **29** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **17** | - | - | - | **68** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | **33** | - | - | - | **87** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | **2.4** | - | <0.4 | **22** | **24** | **14** | - | <0.1 | **11** | **73** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **57** | - | - | - | **62** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | **6.9** | - | - | - | **19** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **43** | - | - | - | **110** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **11** | - | - | - | **59** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | **13** | - | - | - | **31** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | **8.9** | - | - | - | **28** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | **10** | - | - | - | **23** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **34** | - | - | - | **53** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | **100** | - | - | - | **40** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | **2.4** | - | **0.5** | **21** | **25** | **98** | - | **0.2** | **10** | **520** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <2 | - | <0.4 | **17** | **15** | **50** | - | **0.2** | **8.9** | **160** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **SS46/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | <2 | - | <0.4 | **19** | **33** | **33** | - | <0.1 | **9.4** | **65** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | <2 | - | <0.4 | **15** | **12** | **32** | - | <0.1 | **7.8** | **94** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **29** | - | - | - | **82** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <2 | - | <0.4 | **18** | **10** | **24** | - | <0.1 | **11** | **46** | <0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <0.05 | <0.05 | <0.05 | <0.1 | <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 | <0.5 |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **60** | - | - | - | **160** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | **100** | - | - | - | **25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **420** | | - | - | **660** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **9.8** | - | - | - | **24** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | - | - | - | **39** | - | - | - | **74** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **31** | - | - | - | **94** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **280** | - | - | - | **460** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | **160** | - | - | - | **230** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | **15** | - | - | - | **190** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | **3.2** | - | <0.4 | **15** | **13** | **47** | - | <0.1 | **13** | **83** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <2 | - | <0.4 | **10** | **9.3** | **7.2** | - | <0.1 | **7.7** | **16** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <2 | - | <0.4 | **20** | **6** | **6.4** | - | <0.1 | **9.7** | **29** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | <2 | - | <0.4 | | **6.3** | **7.6** | - | <0.1 | **5.5** | **19** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **6** | - | <0.4 | **21** | **22** | **41** | - | <0.1 | **7.2** | **110** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **32** | - | - | - | **120** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **2** | - | <0.4 | **22** | **12** | **30** | - | <0.1 | **11** | **190** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **11** | - | - | - | **40** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **4.3** | - | <0.4 | **20** | **18** | **46** | - | <0.1 | **12** | **79** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | **2.8** | - | <0.4 | **37** | **13** | **14** | - | <0.1 | **17** | **50** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <2 | - | <0.4 | **19** | **19** | **27** | - | <0.1 | **10** | **63** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **10** | - | - | - | **35** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **3.1** | - | <0.4 | **14** | **8.8** | **38** | - | **0.2** | **8.2** | **63** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| | | | | | Metals | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Arsenic | Arsenic TCLP | Cadmium | Chromium (III+VI) | Copper | Lead | Lead TCLP | Mercury | Nickel | Zinc | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | Chlordane | Chlordane (cis) | Chlordane (trans) | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene |
| | | | | | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | **2.6** | - | <0.4 | **19** | **8.2** | **15** | - | <0.1 | **9.6** | **39** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | **7.8** | - | **0.6** | **19** | **15** | **51** | - | <0.1 | **9.1** | **220** | <1 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **2.4** | - | <0.4 | **11** | **11** | **22** | - | <0.1 | **7.8** | **62** | <1 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | <1 | - | <0.4 | **12** | **14** | **25** | - | <0.1 | **8.7** | **70** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | <5 | - | <1 | **6** | **11** | **18** | - | <0.1 | **4** | **98** | - | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | **2.3** | - | <0.4 | **7** | **20** | **35** | - | <0.1 | **7.2** | **100** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | **2.1** | - | <0.4 | **8.9** | **82** | **39** | - | <0.1 | **8.8** | **130** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **11** | - | - | - | **13** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | **2.1** | - | <0.4 | **12** | **5.6** | **11** | - | <0.1 | <5 | **14** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | **5.1** | - | <0.4 | **29** | **7.9** | **130** | - | <0.1 | **6.4** | **9.8** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **7.4** | - | - | - | **16** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <2 | - | <0.4 | **15** | **6.3** | **35** | - | **0.9** | **7.6** | **60** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | <2 | - | <0.4 | **13** | **8.9** | **13** | - | **0.2** | **6.6** | **24** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | **3.5** | - | <0.4 | **47** | **21** | **16** | - | <0.1 | **21** | **60** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **2.7** | - | <0.4 | **55** | **21** | **13** | - | <0.1 | **23** | **60** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <2 | - | <0.4 | **24** | **17** | **20** | - | <0.1 | **12** | **47** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <2 | - | <0.4 | **9.6** | **9.4** | **260** | - | **0.4** | **6.3** | **57** | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **100** | - | - | - | **110** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **2** | - | <0.4 | **20** | **13** | **370** | - | **0.4** | **9.6** | **140** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | <2 | - | <0.4 | **28** | **13** | **380** | - | **0.2** | **12** | **120** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **53** | - | - | - | **140** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <2 | - | <0.4 | **20** | **11** | **35** | - | **0.5** | **9.9** | **77** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | **24** | - | - | - | **65** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <2 | - | <0.4 | **19** | **6.8** | **20** | - | <0.1 | <5 | **23** | **0.13** | <0.1 | **0.13** | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <0.05 | <0.05 | <0.05 | **0.13** | <0.05 | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | <2 | - | <0.4 | **22** | **9.8** | **13** | - | <0.1 | **9.5** | **34** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | |

| | | | | | Organophosphorous Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | EPN | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Prothiofos | Pyrazophos | Ronnel | Terbufos | Trichloronate | Tetrachlorvinphos |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | <0.5 | <3 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | <0.5 | <3 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | - | <0.05 | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | - | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | - | <0.05 | - | <0.05 | - | <0.2 | - | <0.2 | - | - | - | <0.05 | - | - | - | - | - | - | - |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | |

| | | | | | Pesticides | | | | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demeton-S-methyl | Fenamiphos | Parathion | Pirimiphos-methyl | Pirimphos-ethyl | Chlorinated hydrocarbons EPAVic | Other chlorinated hydrocarbons EPAVic | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,2,3-trichloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Vinyl chloride |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | <0.05 | <0.05 | <0.2 | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | | | Dioxins and Furans | | | | | | | | | | | | | | | | | | | | | | | | | | Halogenated Hydrocarbons | | | | | MAH | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Total Penta CDF | Total Tetra CDD | Total Tetra CDF | 1,2,3,4,6,7,8-Heptachloroxanthrene | 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 1,2,3,4,7,8-Hexachloroxanthrene | 1,2,3,4,7,8-Hexachlorodibenzofuran | 1,2,3,6,7,8-Hexachloroxanthrene | 1,2,3,6,7,8-Hexachlorodibenzofuran | 1,2,3,7,8,9-Hexachloroxanthrene | 1,2,3,7,8,9-Hexachlorodibenzofuran | 2,3,7,8-Tetrachloroxanthrene | 1,2,3,7,8-Pentachloroxanthrene | 1,2,3,7,8-Pentachlorodibenzofuran | 2,3,4,6,7,8-Hexachlorodibenzofuran | 2,3,4,7,8-Pentachlorodibenzofuran | 2,3,7,8-Tetrachlorodibenzofuran | HpCDD, 2,3,7,8- | 1,2,3,4,6,7,8,9-Octachloroxanthrene | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran | Lower bound TEQ (International) based on PCDD/F* | Medium bound TEQ (International) based on PCDD/F* | Upper bound TEQ (International) based on PCDD/F* | Medium bound TEQ (WHO) based on DL-PCB* | Lower bound TEQ (WHO) based on DL-PCB* | Upper bound TEQ (WHO) based on DL-PCB* | Lower bound TEQ (WHO) based on PCDD/F* | Medium bound TEQ (WHO) based on PCDD/F* | Upper bound TEQ (WHO) based on PCDD/F* | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane | Total MAH | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | Styrene |
| | | | | | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | 1 | 0.1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.5 | 1 | 1 | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil (0 to 2m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS EILs (Cowra) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <1.4 | <0.1 | <0.1 | <0.7 | **0.7** | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.1 | <0.7 | <0.7 | <0.7 | <0.7 | <0.1 | <0.7 | **8.2** | <1.4 | **0** | **0.70** | **1.4** | **0.01** | **0.00092** | **0.019** | **0** | **0.8** | **1.6** | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.4-0.5 ENM** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.2 ACM** | **13/07/2022** | **907569** | **Soil** | **0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | Dioxins and Furans | | | | | | | | | | | | | | | | | | | | | | | | | | | Halogenated Hydrocarbons | | | | | MAH | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Total Penta CDF | Total Tetra CDD | Total Tetra CDF | 1,2,3,4,6,7,8-Heptachlorooxanthrene | 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 1,2,3,4,7,8-Hexachlorooxanthrene | 1,2,3,4,7,8-Hexachlorodibenzofuran | 1,2,3,6,7,8-Hexachlorooxanthrene | 1,2,3,6,7,8-Hexachlorodibenzofuran | 1,2,3,7,8,9-Hexachlorooxanthrene | 1,2,3,7,8,9-Hexachlorodibenzofuran | 2,3,7,8-Tetrachlorooxanthrene | 1,2,3,7,8-Pentachlorooxanthrene | 1,2,3,7,8-Pentachlorodibenzofuran | 2,3,4,6,7,8-Hexachlorodibenzofuran | 2,3,4,7,8-Pentachlorodibenzofuran | 2,3,7,8-Tetrachlorodibenzofuran | HpCDD, 2,3,7,8- | 1,2,3,4,6,7,8,9-Octachlorooxanthrene | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran | Lower bound TEQ (International) based on PCDD/F* | Medium bound TEQ (International) based on PCDD/F* | Upper bound TEQ (International) based on PCDD/F* | Medium bound TEQ (WHO) based on DL-PCB* | Lower bound TEQ (WHO) based on DL-PCB* | Upper bound TEQ (WHO) based on DL-PCB* | Lower bound TEQ (WHO) based on PCDD/F* | Medium bound TEQ (WHO) based on PCDD/F* | Upper bound TEQ (WHO) based on PCDD/F* | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane | Total MAH | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | Styrene |
| | | | | | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | pg/g | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| TP19/0.3-0.4 ACM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.0-1.1 | 13/07/2022 | 907569 | Soil | 1 - 1.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.2-1.3 | 13/07/2022 | 907569 | Soil | 1.2 - 1.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <1 | 27 | <0.1 | 10 | 1.8 | <0.5 | <0.5 | <0.5 | 1.4 | 1 | <0.5 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 | 22 | 34 | 1.9 | 0.4 | 0.9 | 1.3 | 0.016 | 0.0094 | 0.023 | 0.4 | 0.9 | 1.4 | - | - | - | - | - | - | - | - | - | - |
| QA04 | 13/07/2022 | 907569 | Soil | - | <1.5 | 54 | 59 | 7.3 | 1.6 | <0.7 | <0.7 | <0.7 | <0.7 | 1.1 | <0.7 | <0.7 | <0.1 | <0.7 | <0.7 | <0.7 | <0.7 | <0.1 | 5.4 | 21 | 18 | 0.20 | 0.90 | 1.6 | 0.0098 | 0.0022 | 0.017 | 0.2 | 1 | 1.8 | - | - | - | - | - | - | - | - | - | - |
| QA04A | 13/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.9-1.0 | 13/07/2022 | 907569 | Soil | 0.9 - 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/2.4-2.5 | 13/07/2022 | 907569 | Soil | 2.4 - 2.5 | <1 | 8.3 | 0.3 | 4 | 1.9 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 | 13 | 12 | 1.5 | 0.1 | 0.6 | 1.1 | 0.013 | 0.0063 | 0.02 | 0.1 | 0.7 | 1.2 | - | - | - | - | - | - | - | - | - | - |
| TP21/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 ENM | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 SOIL | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 ENM | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.20-0.25 | 13/07/2022 | 907569 | Soil | 0.2 - 0.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA06 | 13/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| COWRA_EIL | 14/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP SPIKE | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP BLANK | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PCBs | | | | | | | | | | | | | | | | | | | | | Solvents | | | | | |
| | | | | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 | Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157) | Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167) | Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169) | PCB 118 | PCBs (Sum of total) | Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123) | Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126) | Tetrachlorobiphenyl, 3,3,4,4- (PCB 77) | Tetrachlorobiphenyl, 3,4,4,5- (PCB 81) | Methyl Ethyl Ketone | 4-Methyl-2-pentanone | Acetone | Allyl chloride | Carbon disulfide |
| | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.1 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil (0 to 2m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS EILs (Cowra) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0000001 | <0.0000001 | <0.0000001 | <0.0000001 | <0.0000001 | **0.000028** | <0.1 | **0.0000082** | <0.0000001 | <0.0000001 | <0.0000001 | **0.0000094** | <0.0000001 | - | - | - | - | - |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
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| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.4-0.5 ENM** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.2 ACM** | **13/07/2022** | **907569** | **Soil** | **0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | PCBs | | | | | | | | | | | | | | | | | | | Solvents | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157) | Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167) | Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169) | PCB 118 | PCBs (Sum of total) | Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123) | Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126) | Tetrachlorobiphenyl, 3,3,4,4- (PCB 77) | Tetrachlorobiphenyl, 3,4,4,5- (PCB 81) | Methyl Ethyl Ketone | 4-Methyl-2-pentanone | Acetone | Allyl chloride | Carbon disulfide |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <1 | <1 | <1 | <1 | <1 | <1 | <1 | - | - | - | - | - | - | <1 | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.0000001 | **0.000016** | **0.0000027** | **0.000039** | <0.0000001 | **0.00022** | <1 | **0.000053** | **0.000013** | **0.000037** | <0.0000001 | **0.000018** | <0.0000001 | - | - | - | - | - |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0000001 | **0.0000036** | <0.0000001 | **0.0000081** | <0.0000001 | **0.000053** | <0.1 | **0.000017** | <0.0000001 | **0.0000014** | <0.0000001 | **0.000023** | <0.0000001 | - | - | - | - | - |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0000001 | **0.000013** | <0.0000001 | **0.000019** | <0.0000001 | **0.00015** | <0.1 | **0.00004** | **0.0000094** | **0.00002** | <0.0000001 | **0.0000075** | <0.0000001 | - | - | - | - | - |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | | | Ash | Foreign Materials | Inorganics | | | | Asbestos | | BTEX | | | | | | VOCs | TPH | | | | | TRH | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Ash Observed (Y = Yes, visually observed >2% ash quantity) | Foreign Material - Type III | Conductivity (1:5 aqueous extract) | Moisture Content | Moisture Content (dried @ 103°C) | pH (1:5 aqueous extract) | Asbestos ID (D = Detected; ND = Not Detected) | Asbestos | Benzene | Toluene | Ethylbenzene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | C6-C10 (F1 minus BTEX) | C6-C10 Fraction (F1) | C10-C16 Fraction (F2) | C10-C16 Fraction (F2 minus Naphthalene) | C16-C34 Fraction (F3) | C34-C40 Fraction (F4) | C10-C40 Fraction (Sum) |
| | | | | | Comment | | % | µS/cm | % | % | - | Comment | %w/w | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | 10 | 0.1 | 1 | 0.1 | | | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.5 | 10 | 20 | 50 | 50 | 50 | 10 | 10 | 50 | 50 | 100 | 100 | 50 |
| NSW 2014 Excavated Natural Material (Absolute Max) | | | | | | | | 3000 | | | 4.5-10 | D | | 0.5 | 65 | 25 | | | 15 | | | | | | 500 | | | | | | | |
| NSW 2014 Excavated Natural Material (Max Average) | | | | | | | | 1500 | | | 5-9 | | | | | | | | | | | | | | 250 | | | | | | | |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | | | | | | | | 10 | 288 | 600 | | | 1,000 | | 650 | | | | 10,000 | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | | | | | | | | 40 | 1,152 | 2,400 | | | 4,000 | | 2,600 | | | | 40,000 | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | | | | | | | | 18 | 518 | 1,080 | | | 1,800 | | 650 | | | | 10,000 | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | | | | | | | | 72 | 2,073 | 4,320 | | | 7,200 | | 2,600 | | | | 40,000 | | | | | | | |
| NSW 2014 General Solid Waste TCLP2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | **3.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | **3.8** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **19** | - | - | - | *<0.1* | *<0.1* | *<0.1* | **0.4** | **0.3** | **0.7** | *<0.5* | *<20* | *<20* | **54** | **70** | **124** | *<20* | *<20* | *<50* | *<50* | **100** | *<100* | **100** |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | **15** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA01** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | **12** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | **14.6** | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | **Y** | - | - | - | **21** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | **13** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | **7.9** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | **11** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | **13** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | **12** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | **10.6** | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | **13** | - | **11** | **8** | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | <LOR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **77** | - | **12** | **7** | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | <LOR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | **13** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | - | - | - | - | **20** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **12** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | **11** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | - | - | - | - | **14** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | **7.1** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | **68** | **68** | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | **16** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | **5.9** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | **54** | **54** | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **18** | - | ND | *<0.001* | *<0.1* | *<0.1* | **0.2** | **0.3** | **0.2** | **0.5** | *<0.5* | *<20* | **26** | **72** | **66** | **164** | *<20* | *<20* | *<50* | *<50* | **130** | *<100* | **130** |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **12** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **12** | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **83** | **51** | **134** | *<20* | *<20* | *<50* | *<50* | **130** | *<100* | **130** |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | **19** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **23** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **11** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **9.8** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **19** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **5.4** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **10** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **9.6** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | **14** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | - | - | - | - | **14** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **13** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **15** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **19** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **18** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | **16** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | **17** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | **8.9** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **14** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | **19** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **16** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | **34** | **150** | **160** | **344** | *<20* | *<20* | *<50* | *<50* | **260** | **110** | **370** |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | **14** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **11** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **290** | **270** | **560** | *<20* | *<20* | *<50* | *<50* | **500** | **130** | **630** |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **27** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **24** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | **Y** | - | - | - | **24** | - | ND | ***<0.001*** | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **8.4** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | **6.9** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **27** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **16** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | **Y** | - | - | - | **16** | - | ND | ***<0.001*** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **10** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **4.7** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | **Y** | - | - | - | **22** | - | ND | ***<0.001*** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **4.8** | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | **4.8** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | **3.7** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | **2.2** | - | - | - | - | *<0.2* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | *<10* | *<50* | *<100* | *<100* | *<50* | *<10* | *<10* | *<50* | *<50* | *<100* | *<100* | *<50* |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | **14** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **62** | **59** | **121** | *<20* | *<20* | *<50* | *<50* | **100** | *<100* | **100** |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **39** | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **Y** | - | - | - | **24** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **Y** | - | - | - | - | - | ND | ***<0.001*** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **15** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | **11** | - | ND | *<0.001* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | **Y** | - | - | - | **20** | - | ND | ***<0.001*** | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | **11** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | ND | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **13** | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | 0.28* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | **19** | - | **13** | **7.9** | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | **63** | *<50* | *63* | *<20* | *<20* | *<50* | *<50* | **110** | *<100* | **110** |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **10** | - | ND | *<0.01* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | **16** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | - | - | - | - | **10** | - | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | **17** | - | **14** | **7.2** | - | - | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | ND | *<0.001* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | 0.15* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | **9.9** | - | ND | *<0.01* | *<0.1* | *<0.1* | *<0.1* | *<0.2* | *<0.1* | *<0.3* | *<0.5* | *<20* | *<20* | *<50* | *<50* | *<50* | *<20* | *<20* | *<50* | *<50* | *<100* | *<100* | *<100* |

| | | | | | Ash | Foreign Materials | Inorganics | | | | Asbestos | | BTEX | | | | | | VOCs | TPH | | | | | TRH | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Ash Observed (Y = Yes, visually observed >2% ash quantity) | Foreign Material - Type III | Conductivity (1:5 aqueous extract) | Moisture Content | Moisture Content (dried @ 103°C) | pH (1:5 aqueous extract) | Asbestos ID (D = Detected; ND = Not Detected) | Asbestos | Benzene | Toluene | Ethylbenzene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | C6-C10 (F1 minus BTEX) | C6-C10 Fraction (F1) | >C10-C16 Fraction (F2) | >C10-C16 Fraction (F2 minus Naphthalene) | >C16-C34 Fraction (F3) | >C34-C40 Fraction (F4) | >C10-C40 Fraction (Sum) |
| | | | | | Comment | | % | µS/cm | % | % | - | Comment | %w/w | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| TP18/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | Y | - | 16 | - | 21 | 6.7 | ND | <0.001 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP18/0.4-0.5 ENM | 13/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | 0.05* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.2 ACM | 13/07/2022 | 907569 | Soil | 0.2 | - | - | - | - | - | - | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | 16 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | 72 | <50 | 72 | <20 | <20 | <50 | <50 | 120 | <100 | 120 |
| TP19/0.3-0.4 ACM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.0-1.1 | 13/07/2022 | 907569 | Soil | 1 - 1.1 | - | - | - | - | 14 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | 76 | <50 | 76 | <20 | <20 | <50 | <50 | 120 | <100 | 120 |
| TP19/1.2-1.3 | 13/07/2022 | 907569 | Soil | 1.2 - 1.3 | - | - | - | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 22 | - | ND | <0.001 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP20/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | Y | - | - | - | 19 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| QA04 | 13/07/2022 | 907569 | Soil | - | - | - | - | - | 17 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| QA04A | 13/07/2022 | ES2225933 | Soil | - | - | - | - | 36.1 | - | - | - | - | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <10 | <50 | <100 | <100 | <50 | <10 | <10 | <50 | <50 | <100 | <100 | <50 |
| TP20/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | Y | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.9-1.0 | 13/07/2022 | 907569 | Soil | 0.9 - 1 | Y | - | - | - | 18 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP20/2.4-2.5 | 13/07/2022 | 907569 | Soil | 2.4 - 2.5 | Y | - | - | - | 16 | - | ND | <0.001 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP21/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 4.5 | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | 6.1 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP21/0.2-0.3 ENM | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | <LOR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 SOIL | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | 49 | - | 6.1 | 8.1 | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP22/0.0-0.1 ENM | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | <LOR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 3.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | 78 | - | 6.8 | 9.3 | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | 120 | 56 | 176 | <20 | <20 | <50 | <50 | 180 | <100 | 180 |
| TP23/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | <LOR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.20-0.25 | 13/07/2022 | 907569 | Soil | 0.2 - 0.25 | Y | - | - | - | 18 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP24/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 20 | - | ND | <0.01 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP24/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | <10 | - | 15 | 7.1 | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP24/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | 10 | - | 16 | 7 | ND | <0.01 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP25/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | 0.35* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | Y | - | - | - | 26 | - | ND | <0.001 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP26/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | Y | - | - | - | 24 | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | 93 | - | 16 | 9.1 | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | 51 | <50 | 51 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| QA06 | 13/07/2022 | 907569 | Soil | - | - | - | 87 | - | 16 | 9 | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | 82 | <50 | 82 | <20 | <20 | <50 | <50 | 110 | <100 | 110 |
| TP26/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | 0.07* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 22 | - | ND | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | 43 | - | 13 | 8.9 | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP27/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | <LOR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | 24 | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | 10 | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | <20 | <50 | <50 | <50 | <20 | <20 | <50 | <50 | <100 | <100 | <100 |
| TP28/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | ND | <0.001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| COWRA_EIL | 14/07/2022 | 907569 | Soil | - | - | - | - | - | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP SPIKE | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | 78% | 78% | 77% | 76% | 79% | 78% | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP BLANK | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.5 | <20 | - | - | - | - | <20 | <20 | - | - | - | - | - |
| SS01 | 17/01/2022 | ES2201531 | Soil | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS03_FRAG | 17/01/2022 | ES2201531 | Soil | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0.9-1.0 | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP02_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP02_0.3-0.4 | 17/01/2022 | ES2201531 | Soil | 0.3-0.4 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP03_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP04_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP04_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.4-0.5 | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.9-1.0 | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_2.1-2.3 | 17/01/2022 | ES2201531 | Soil | 2.1-2.3 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP06_0-0.05 | 17/01/2022 | ES2201531 | Soil | 0-0.05 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP07_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0.4-0.5 | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP09_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP09_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP10_0.1-0.2 | 17/01/2022 | ES2201531 | Soil | 0.1-0.2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP10_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average** | | | | | | | 0.27 | | | | | | | | | | | | | | | | | 25.00 | | | | | | | |

**Notes**
*% Reported for vegetable matter, all other material <LOR
**QA samples not used for the average calculation; Values <LOR have been set to 50% of the LOR; PSI data included for purposes of ENM average calculations; samples of ash layers excluded from ENM average calculations

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | | | PAH | | | | | | | | | | | | | | | | | | | | Halogenated Benzenes | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(a) pyrene TCLP | Benzo(b+j)fluoranthene | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Arsenic | Arsenic TCLP | Cadmium | Chromium (III+VI) | Copper | Lead | Lead TCLP | Mercury | Nickel | Zinc |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 2 | | 0.4 | 2 | 5 | 5 | | 0.1 | 2 | 5 |
| NSW 2014 Excavated Natural Material (Absolute Max) | | | | | | | | | 1 | | | | | | | | | | | | | | | | 40 | | | | | | | | 40 | | 1 | 150 | 200 | 100 | | 1 | 60 | 300 |
| NSW 2014 Excavated Natural Material (Max Average) | | | | | | | | | 0.5 | | | | | | | | | | | | | | | | 20 | | | | | | | | 20 | | 0.5 | 75 | 100 | 50 | | 0.5 | 30 | 150 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | | | 0.8 | | | | | | | | | | | | | | | | 200 | 86 | | 150 | | | 2,000 | | 100 | | 20 | | | 100 | | 4 | 40 | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | | | 3.2 | | | | | | | | | | | | | | | | 800 | 344 | | 600 | | | 8,000 | | 400 | | 80 | | | 400 | | 16 | 160 | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | | | 10 | | | | | | | | | | | | | | | | 200 | 155 | | 270 | | | 3,600 | | 500 | | 100 | | | 1,500 | | 50 | 1,050 | |
| NSW 2014 General Solid Waste TCLP1 | | | | | | | | | | 0.04 | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | 5 | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | | | 23 | | | | | | | | | | | | | | | | 800 | 620 | | 1,080 | | | 14,400 | | 2,000 | | 400 | | | 6,000 | | 200 | 4,200 | |
| NSW 2014 General Solid Waste TCLP2 | | | | | | | | | | 0.16 | | | | | | | | | | | | | | | | | | | | | | | | 20 | | | | | 20 | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **160** | <0.01 | <0.4 | **36** | **49** | **20** | - | **0.3** | **28** | **30** |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **37** | - | <0.4 | **34** | **19** | **27** | - | **0.2** | **17** | **35** |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <5 | - | <1 | **36** | **13** | **29** | - | <0.1 | **11** | **35** |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <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 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **2.2** | - | <0.4 | **18** | **16** | **47** | - | **0.2** | **12** | **130** |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **20** | **28** | **110** | **0.02** | **0.4** | **9.1** | **470** |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **2.7** | - | <0.4 | **43** | **15** | **15** | - | <0.1 | **17** | **40** |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <2 | - | <0.4 | **9.6** | **10** | **11** | - | <0.1 | **5.3** | **33** |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <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 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <2 | - | <0.4 | **39** | **14** | **7.6** | - | <0.1 | **17** | **31** |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <2 | - | <0.4 | **36** | **12** | **10** | - | <0.1 | **17** | **36** |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | <5 | - | <1 | **28** | **10** | **21** | - | <0.1 | **11** | **50** |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | **2.5** | - | <0.4 | **32** | **13** | **15** | - | <0.1 | **13** | **29** |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | **4.1** | - | <0.4 | **41** | **15** | **12** | - | <0.1 | **22** | **38** |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | **4.1** | - | <0.4 | **43** | **16** | **20** | - | <0.1 | **20** | **40** |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **3.2** | - | <0.4 | **21** | **22** | **51** | - | <0.1 | **12** | **170** |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **2.2** | - | <0.4 | **31** | **13** | **24** | - | **0.1** | **15** | **66** |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | **0.6** | **0.8** | - | **0.7** | <1 | **0.8** | **0.8** | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | **1.3** | **1.6** | **1** | **3.7** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | **2.3** | - | <0.4 | **25** | **13** | **33** | - | <0.1 | **13** | **60** |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **21** | **11** | **27** | - | <0.1 | **10** | **52** |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | **2.4** | - | <0.4 | **22** | **24** | **14** | - | <0.1 | **11** | **73** |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | **2.4** | - | **0.5** | **21** | **25** | **98** | - | **0.2** | **10** | **520** |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **17** | **15** | **50** | - | **0.2** | **8.9** | **160** |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **19** | **33** | **33** | - | <0.1 | **9.4** | **65** |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <2 | - | <0.4 | **15** | **12** | **32** | - | <0.1 | **7.8** | **94** |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **18** | **10** | **24** | - | <0.1 | **11** | **46** |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **3.2** | - | <0.4 | **15** | **13** | **47** | - | <0.1 | **13** | **83** |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **10** | **9.3** | **7.2** | - | <0.1 | **7.7** | **16** |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | **20** | **6** | **6.4** | - | <0.1 | **9.7** | **29** |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | <5 | **6.3** | **7.6** | - | <0.1 | **5.5** | **19** |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | **6** | - | <0.4 | **21** | **22** | **41** | - | <0.1 | **7.2** | **110** |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **120** |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.6** | **1.2** | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | **2** | - | <0.4 | **22** | **12** | **30** | - | <0.1 | **11** | **190** |
| **

| | | | | | PAH | | | | | | | | | | | | | | | | | | | | Halogenated Benzenes | | | | | | | Metals | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(a) pyrene TCLP | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Arsenic | Arsenic TCLP | Cadmium | Chromium (III+VI) | Copper | Lead | Lead TCLP | Mercury | Nickel | Zinc |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | mg/kg |
| **TP18/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | 3.1 | - | <0.4 | 14 | 8.8 | 38 | - | 0.2 | 8.2 | 63 |
| **TP18/0.4-0.5 ENM** | 13/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | <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 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | - | - | - | - | 53 |
| **TP19/0.2 ACM** | 13/07/2022 | 907569 | Soil | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | 0.6 | 1.2 | <0.5 | 2.1 | - | - | - | - | - | - | - | 3.2 | - | <0.4 | 23 | 14 | 68 | - | <0.1 | 12 | 88 |
| **TP19/0.3-0.4 ACM** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | 13/07/2022 | 907569 | Soil | 1 - 1.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | 0.5 | <0.5 | <0.5 | 0.7 | <0.5 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | 0.6 | 1.2 | <0.5 | 2.7 | - | - | - | - | - | - | - | 2.6 | - | <0.4 | 19 | 8.2 | 15 | - | <0.1 | 9.6 | 39 |
| **TP19/1.2-1.3** | 13/07/2022 | 907569 | Soil | 1.2 - 1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.5 | 7.8 | - | 0.6 | 19 | 15 | 51 | - | <0.1 | 9.1 | 220 |
| **TP20/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.5 | 2.4 | - | <0.4 | 11 | 11 | 22 | - | <0.1 | 7.8 | 62 |
| **QA04** | 13/07/2022 | 907569 | Soil | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | 12 | 14 | 25 | - | <0.1 | 8.7 | 70 |
| **QA04A** | 13/07/2022 | ES2225933 | Soil | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <5 | - | <1 | 6 | 11 | 18 | - | <0.1 | 4 | 98 |
| **TP20/0.3-0.4 SOIL** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | 13/07/2022 | 907569 | Soil | 0.9 - 1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | 2.3 | - | <0.4 | 7 | 20 | 35 | - | <0.1 | 7.2 | 100 |
| **TP20/2.4-2.5** | 13/07/2022 | 907569 | Soil | 2.4 - 2.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | 2.1 | - | <0.4 | 8.9 | 82 | 39 | - | <0.1 | 8.8 | 130 |
| **TP21/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | - | - | - | 13 |
| **TP21/0.2-0.3** | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | 2.1 | - | <0.4 | 12 | 5.6 | 11 | - | <0.1 | <5 | 14 |
| **TP21/0.2-0.3 ENM** | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | 5.1 | - | <0.4 | 29 | 7.9 | 130 | - | <0.1 | 6.4 | 9.8 |
| **TP22/0.0-0.1 ENM** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.4 | - | - | - | - | 16 |
| **TP23/0.0-0.1 SOIL** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | 2.8 | 2.5 | <0.001 | 2.4 | <2 | 2.3 | 3.2 | 0.5 | <10 | <0.5 | 1.3 | <0.5 | <5 | <10 | 3.9 | 3.9 | 3.9 | 15 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | 15 | 6.3 | 35 | - | 0.9 | 7.6 | 60 |
| **TP23/0.3-0.4 ENM** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | 13/07/2022 | 907569 | Soil | 0.2 - 0.25 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | <2 | - | <0.4 | 13 | 8.9 | 13 | - | 0.2 | 6.6 | 24 |
| **TP24/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | 3.5 | - | <0.4 | 47 | 21 | 16 | - | <0.1 | 21 | 60 |
| **TP24/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | 2.7 | - | <0.4 | 55 | 21 | 13 | - | <0.1 | 23 | 60 |
| **TP24/0.3-0.4 SOIL** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | 24 | 17 | 20 | - | <0.1 | 12 | 47 |
| **TP25/0.3-0.4 ENM** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | <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 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | 9.6 | 9.4 | 260 | - | 0.4 | 6.3 | 57 |
| **TP26/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | - | - | - | - | 110 |
| **TP26/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <1 | <2 | 0.6 | 1.2 | <0.5 | <2 | - | - | - | - | - | - | - | 2 | - | <0.4 | 20 | 13 | 370 | 0.79 | 0.4 | 9.6 | 140 |
| **QA06** | 13/07/2022 | 907569 | Soil | - | <0.5 | <0.5 | <0.5 | 1 | 0.6 | - | 0.6 | <0.5 | 0.7 | 1 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <2 | <2 | 1.1 | 1.4 | 0.8 | 3.9 | - | - | - | - | - | - | - | <2 | - | <0.4 | 28 | 13 | 380 | - | 0.2 | 12 | 120 |
| **TP26/0.3-0.4 ENM** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 53 | - | - | - | - | 140 |
| **TP27/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | - | <2 | - | <0.4 | 20 | 11 | 35 | - | 0.5 | 9.9 | 77 |
| **TP27/0.3-0.4 ENM** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | - | - | - | - | 65 |
| **TP28/0.3-0.4** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | - | - | - | - | - | <0.05 | <2 | - | <0.4 | 19 | 6.8 | 20 | - | <0.1 | <5 | 23 |
| **TP28/0.3-0.4 SOIL** | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | 14/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <2 | - | <0.4 | 22 | 9.8 | 13 | - | <0.1 | 9.5 | 34 |
| **SOIL TRIP SPIKE** | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SS01** | 17/01/2022 | ES2201531 | Soil | 0 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| **SS03_FRAG** | 17/01/2022 | ES2201531 | Soil | 0 | | | | | - | | | | | | | | | | | | | | | - | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| **TP01_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 21 | 15 | 48 | | <0.1 | 9 | 53 |
| **TP01_0.2-0.3** | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 16 | 6 | 8 | | <0.1 | 8 | 15 |
| **TP01_0.9-1.0** | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | | | | | - | | | | | | | | | | | | | | | - | | | | | | | | - | | - | - | - | - | | - | - | - |
| **TP02_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 16 | 33 | 76 | | 0.2 | 9 | 159 |
| **TP02_0.3-0.4** | 17/01/2022 | ES2201531 | Soil | 0.3-0.4 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 13 | <5 | 11 | | <0.1 | 6 | 38 |
| **TP03_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 12 | 22 | 92 | | <0.1 | 8 | 180 |
| **TP04_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 3 | 10 | 20 | | <0.1 | 5 | 30 |
| **TP04_0.2-0.3** | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 33 | 10 | 13 | | <0.1 | 14 | 35 |
| **TP05_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 17 | 26 | 52 | | 0.2 | 8 | 80 |
| **TP05_0.2-0.3** | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 4 | 18 | 15 | | <0.1 | 9 | 170 |
| **TP05_0.4-0.5** | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 36 | 13 | 16 | | <0.1 | 14 | 26 |
| **TP05_0.9-1.0** | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 10 | 11 | 10 | | <0.1 | 9 | 32 |
| **TP05_2.1-2.3** | 17/01/2022 | ES2201531 | Soil | 2.1-2.3 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 30 | 14 | 16 | | <0.1 | 14 | 32 |
| **TP06_0-0.05** | 17/01/2022 | ES2201531 | Soil | 0-0.05 | | | | | <0.5 | | | | | | | | | | | | | | | 5.4 | | | | | | | | <5 | | <1 | 15 | 5 | 7 | | <0.1 | 7 | 21 |
| **TP07_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | 0.8 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 23 | 12 | 29 | | <0.1 | 11 | 61 |
| **TP08_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | <2 | <5 | <5 | | <0.1 | <2 | 23 |
| **TP08_0.2-0.3** | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | <0.5 | | | | | | | | | | | | | | | 38.4 | | | | | | | | <5 | | <1 | 3 | 9 | 5 | | <0.1 | 6 | 12 |
| **TP08_0.4-0.5** | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | | | | | 2.8 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 18 | 13 | 57 | | 0.4 | 10 | 87 |
| **TP09_0-0.1** | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | <2 | <5 | <5 | | <0.1 | <2 | 22 |
| **TP09_0.2-0.3** | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 4 | 12 | 11 | | <0.1 | 6 | 19 |
| **TP10_0.1-0.2** | 17/01/2022 | ES2201531 | Soil | 0.1-0.2 | | | | | <0.5 | | | | | | | | | | | | | | | <0.5 | | | | | | | | <5 | | <1 | 11 | <5 | <5 | | <0.1 | 2 | 17 |
| **TP10_0.2-0.3** | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | 0.6 | | | | | | | | | | | | | | | 8.1 | | | | | | | | <5 | | <1 | 15 | 6 | 84 | | 0.4 | 9 | 78 |
| | | | | **Average**** | | | | | 0.25 | | | | | | | | | | | | | | | 0.26 | | | | | | | | 1.90 | | 0.31 | 14.38 | 11.67 | 27.50 | | 0.07 | 7.43 | 56.67 |

**Notes**
*% Reported for vegetable matter, all other material <LOR
**QA samples not used for the average calculation; Values <LOR have been set to 50% of the LOR; PSI data included for purposes of ENM average calculations; samples of ash layers excluded from ENM average calculations

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | Chlordane | Chlordane (cis) | Chlordane (trans) | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 0.1 | 0.1 | 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 | 0.5 |
| NSW 2014 Excavated Natural Material (Absolute Max) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Excavated Natural Material (Max Average) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | | | | | | | | | | 60 | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | | | | | | | | | | 240 | | | | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | | | | | | | | | | 108 | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | | | | | | | | | | 432 | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sample ID | Sample Date | Report Reference | Sample Matrix | Sample Depth (m bgl) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CT01 | 14/07/2022 | 907569 | Soil | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CT02 | 14/07/2022 | 907569 | Soil | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH12/0.0-0.1 | 11/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH12/0.3-0.5 | 11/07/2022 | 907569 | Soil | 0.3 - 0.5 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| QA01 | 11/07/2022 | 907569 | Soil | - | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| QA01A | 11/07/2022 | ES2225933 | Soil | - | - | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| BH12/0.5-0.6 | 11/07/2022 | 907569 | Soil | 0.5 - 0.6 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| BH12/0.9-1.0 | 11/07/2022 | 907569 | Soil | 0.9 - 1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| BH12/1.9-2.0 | 11/07/2022 | 907569 | Soil | 1.9 - 2 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| BH29/0.1-0.2 | 11/07/2022 | 907569 | Soil | 0.1 - 0.2 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| BH29/0.5-0.6 | 12/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA02 | 12/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA02A | 12/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH29/1.9-2.0 | 12/07/2022 | 907569 | Soil | 1.9 - 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH29/2.0-2.5 ENM | 12/07/2022 | 907569 | Soil | 2 - 2.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/0.3-0.4 | 12/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/0.4-0.6 ENM | 12/07/2022 | 907569 | Soil | 0.4 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/1.9-2.0 | 12/07/2022 | 907569 | Soil | 1.9 - 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/2.9-3.0 | 12/07/2022 | 907569 | Soil | 2.9 - 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH32/0.4-0.5 | 12/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH32/1.9-2.0 | 12/07/2022 | 907569 | Soil | 1.9 - 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH32/3.9-4.0 | 12/07/2022 | 907569 | Soil | 3.9 - 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH33/0.3-0.4 | 12/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH33/0.9-1.0 | 12/07/2022 | 907569 | Soil | 0.9 - 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA31/0.1-0.2 | 12/07/2022 | 907569 | Soil | 0.1 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA34/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| HA34/0.4-0.5 | 14/07/2022 | 907569 | Soil | 0.4 - 0.5 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| HA35/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| HA35/0.3-0.4 | 14/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| HA36/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA36/0.4-0.5 | 14/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA37/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA37/0.4-0.5 | 14/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA38/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA38/0.4-0.5 | 14/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA39/0.0-0.1 | 12/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA39/0.3-0.5 | 12/07/2022 | 907569 | Soil | 0.3 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA40/0.15-0.25 | 12/07/2022 | 907569 | Soil | 0.15 - 0.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA41/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA41/0.4-0.5 | 14/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA42/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA43/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA43/0.3-0.4 | 14/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA08 | 14/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA08A | 14/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA44/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA44/0.2-0.3 | 14/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS45/0.00-0.05 | 11/07/2022 | 907569 | Soil | 0 - 0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| SS45/0.15-0.20 | 11/07/2022 | 907569 | Soil | 0.15 - 0.2 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| SS46/0.00-0.05 | 11/07/2022 | 907569 | Soil | 0 - 0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| SS47/0.00-0.05 | 14/07/2022 | 907569 | Soil | 0 - 0.05 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| SS48/0.00-0.05 | 14/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS48/0.15-0.20 | 14/07/2022 | 907569 | Soil | 0.15 - 0.2 | <0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 |
| SS49/0.00-0.05 | 14/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS49/0.15-0.20 | 14/07/2022 | 907569 | Soil | 0.15 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS50/0.00-0.05 | 14/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS51/0.00-0.05 | 14/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS51/0.05-0.10 | 14/07/2022 | 907569 | Soil | 0.05 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS52/0.00-0.05 | 11/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS53/0.00-0.05 | 11/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS53/0.15-0.20 | 11/07/2022 | 907569 | Soil | 0.15 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS54/0.00-0.05 | 11/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS55/0.00-0.05 | 12/07/2022 | 907569 | Soil | 0 - 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA03 | 12/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA03A | 12/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS55/0.15-0.20 | 12/07/2022 | 907569 | Soil | 0.15 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP11/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP11/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP11/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP13/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP13/0.4-0.5 | 13/07/2022 | 907569 | Soil | 0.4 - 0.5 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP13/0.25-0.35 | 13/07/2022 | 907569 | Soil | 0.25 - 0.35 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP14/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP14/0.3-0.4 ACM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP14/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP14/0.5 ACM | 13/07/2022 | 907569 | Soil | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP15/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP15/0.2-0.3 ENM | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP15/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP15/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP16/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP16/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP16/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP16/0.7-0.8 | 13/07/2022 | 907569 | Soil | 0.7 - 0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP17/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <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 | <0.5 |
| TP17/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP17/0.0-0.2 ENM | 13/07/2022 | 907569 | Soil | 0 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | Chlordane | Chlordane (cis) | Chlordane (trans) | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP18/0.4-0.5 ENM** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.2 ACM** | **13/07/2022** | **907569** | **Soil** | **0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | *<1* | *<1* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | - | - | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | - | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<10* |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<1* | *<1* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<1* | - | - | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | - | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<0.5* | *<10* |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | - | - | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.2* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.2* | - |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | *<0.1* | *<0.1* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<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* | *<0.5* |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | **0.13** | *<0.1* | **0.13** | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.1* | - | - | *<0.05* | *<0.05* | *<0.05* | **0.13** | *<0.05* | - | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.05* | *<0.5* |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS01** | **17/01/2022** | **ES2201531** | **Soil** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **SS03_FRAG** | **17/01/2022** | **ES2201531** | **Soil** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP01_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP01_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP01_0.9-1.0** | **17/01/2022** | **ES2201531** | **Soil** | **0.9-1.0** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP02_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP02_0.3-0.4** | **17/01/2022** | **ES2201531** | **Soil** | **0.3-0.4** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP03_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP04_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP04_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0.4-0.5** | **17/01/2022** | **ES2201531** | **Soil** | **0.4-0.5** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0.9-1.0** | **17/01/2022** | **ES2201531** | **Soil** | **0.9-1.0** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_2.1-2.3** | **17/01/2022** | **ES2201531** | **Soil** | **2.1-2.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP06_0-0.05** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.05** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP07_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP08_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP08_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP08_0.4-0.5** | **17/01/2022** | **ES2201531** | **Soil** | **0.4-0.5** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP09_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP09_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP10_0.1-0.2** | **17/01/2022** | **ES2201531** | **Soil** | **0.1-0.2** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP10_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | **Average**** | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Notes**
*% Reported for vegetable matter, all other material <LOR
**QA samples not used for the average calculation; Values <LOR have been set to 50% of the LOR; PSI data included for purposes of ENM average calculations; samples of ash layers excluded from ENM average calculations

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | Organophosphorous Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | EPN | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Prothiofos | pyrazophos | Ronnel | Terbufos | Trichloronate | tetrachlorvinphos |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 0.2 | 0.05 | 0.2 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.2 | 0.05 | 0.05 | 0.05 | 0.2 | 0.05 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2 | 0.2 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| NSW 2014 Excavated Natural Material (Absolute Max) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Excavated Natural Material (Max Average) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sample ID** | **Sample Date** | **Report Reference** | **Sample Matrix** | **Sample Depth (m bgl)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CT01** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **CT02** | **14/07/2022** | **907569** | **Soil** | **0** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.0-0.1** | **11/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH12/0.3-0.5** | **11/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **QA01** | **11/07/2022** | **907569** | **Soil** | **-** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **QA01A** | **11/07/2022** | **ES2225933** | **Soil** | **-** | - | <0.05 | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | - | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | - | <0.05 | - | <0.05 | - | <0.2 | - | <0.2 | - | - | - | <0.05 | - | - | - | - | - |
| **BH12/0.5-0.6** | **11/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **BH12/0.9-1.0** | **11/07/2022** | **907569** | **Soil** | **0.9 - 1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **BH12/1.9-2.0** | **11/07/2022** | **907569** | **Soil** | **1.9 - 2** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **BH29/0.1-0.2** | **11/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **BH29/0.5-0.6** | **12/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA02** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA02A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29/2.0-2.5 ENM** | **12/07/2022** | **907569** | **Soil** | **2 - 2.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/0.4-0.6 ENM** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH30/2.9-3.0** | **12/07/2022** | **907569** | **Soil** | **2.9 - 3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/0.4-0.5** | **12/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/1.9-2.0** | **12/07/2022** | **907569** | **Soil** | **1.9 - 2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32/3.9-4.0** | **12/07/2022** | **907569** | **Soil** | **3.9 - 4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.3-0.4** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH33/0.9-1.0** | **12/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA31/0.1-0.2** | **12/07/2022** | **907569** | **Soil** | **0.1 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA34/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **HA34/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **HA35/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **HA35/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **HA36/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA36/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA37/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA38/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.0-0.1** | **12/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA39/0.3-0.5** | **12/07/2022** | **907569** | **Soil** | **0.3 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA40/0.15-0.25** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA41/0.4-0.5** | **14/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA42/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA43/0.3-0.4** | **14/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA08A** | **14/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.0-0.1** | **14/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HA44/0.2-0.3** | **14/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS45/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **SS45/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **SS46/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **SS47/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **SS48/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS48/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **SS49/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS49/0.15-0.20** | **14/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS50/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.00-0.05** | **14/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS51/0.05-0.10** | **14/07/2022** | **907569** | **Soil** | **0.05 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS52/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS53/0.15-0.20** | **11/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS54/0.00-0.05** | **11/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.00-0.05** | **12/07/2022** | **907569** | **Soil** | **0 - 0.05** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03** | **12/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA03A** | **12/07/2022** | **ES2225933** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS55/0.15-0.20** | **12/07/2022** | **907569** | **Soil** | **0.15 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP11/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP11/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP11/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP13/0.4-0.5** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP13/0.25-0.35** | **13/07/2022** | **907569** | **Soil** | **0.25 - 0.35** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP14/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP14/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP14/0.5 ACM** | **13/07/2022** | **907569** | **Soil** | **0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP15/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP15/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP16/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP16/0.7-0.8** | **13/07/2022** | **907569** | **Soil** | **0.7 - 0.8** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP17/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP17/0.0-0.2 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | Organophosphorous Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | EPN | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Prothiofos | Pyrazophos | Ronnel | Terbufos | Trichloronate | Tetrachlorvinphos |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **TP18/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP18/0.4-0.5 ENM** | **13/07/2022** | **907569** | **Soil** | **0.4 - 0.5** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP18/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.2 ACM** | **13/07/2022** | **907569** | **Soil** | **0.2** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP19/0.3-0.4 ACM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.0-1.1** | **13/07/2022** | **907569** | **Soil** | **1 - 1.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP19/1.2-1.3** | **13/07/2022** | **907569** | **Soil** | **1.2 - 1.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.5 | <0.5 | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **TP20/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.5 | <0.5 | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QA04** | **13/07/2022** | **907569** | **Soil** | **-** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **QA04A** | **13/07/2022** | **ES2225933** | **Soil** | **-** | - | <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 | - | <0.2 | - | - | - | <0.05 | - | - | - | - | - | - | - |
| **TP20/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/0.9-1.0** | **13/07/2022** | **907569** | **Soil** | **0.9 - 1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP20/2.4-2.5** | **13/07/2022** | **907569** | **Soil** | **2.4 - 2.5** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP21/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 ENM** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP21/0.2-0.3 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.3** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP22/0.0-0.1 ENM** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP22/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.0-0.1 SOIL** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP23/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP23/0.20-0.25** | **13/07/2022** | **907569** | **Soil** | **0.2 - 0.25** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP24/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP24/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP24/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP25/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP25/0.5-0.6** | **13/07/2022** | **907569** | **Soil** | **0.5 - 0.6** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP26/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA06** | **13/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP26/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 ENM** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP27/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.0-0.1** | **13/07/2022** | **907569** | **Soil** | **0 - 0.1** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TP28/0.3-0.4** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | <0.2 | <0.2 | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| **TP28/0.3-0.4 SOIL** | **13/07/2022** | **907569** | **Soil** | **0.3 - 0.4** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **COWRA_EIL** | **14/07/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP SPIKE** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SOIL TRIP BLANK** | **30/06/2022** | **907569** | **Soil** | **-** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SS01** | **17/01/2022** | **ES2201531** | **Soil** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **SS03_FRAG** | **17/01/2022** | **ES2201531** | **Soil** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP01_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP01_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP01_0.9-1.0** | **17/01/2022** | **ES2201531** | **Soil** | **0.9-1.0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP02_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP02_0.3-0.4** | **17/01/2022** | **ES2201531** | **Soil** | **0.3-0.4** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP03_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP04_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP04_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0.4-0.5** | **17/01/2022** | **ES2201531** | **Soil** | **0.4-0.5** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_0.9-1.0** | **17/01/2022** | **ES2201531** | **Soil** | **0.9-1.0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP05_2.1-2.3** | **17/01/2022** | **ES2201531** | **Soil** | **2.1-2.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP06_0-0.05** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.05** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP07_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP08_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP08_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP08_0.4-0.5** | **17/01/2022** | **ES2201531** | **Soil** | **0.4-0.5** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP09_0-0.1** | **17/01/2022** | **ES2201531** | **Soil** | **0-0.1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP09_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP10_0.1-0.2** | **17/01/2022** | **ES2201531** | **Soil** | **0.1-0.2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TP10_0.2-0.3** | **17/01/2022** | **ES2201531** | **Soil** | **0.2-0.3** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Average**** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Notes**
*% Reported for vegetable matter, all other material <LOR
**QA samples not used for the average calculation; Values <LOR have been set to 50% of the LOR; PSI data included for purposes of ENM average calculations; samples of ash layers excluded from ENM average calculations

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | |

| | | | | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | | | MAH | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Chlorinated hydrocarbons EPAVic | Other chlorinated hydrocarbons EPAVic | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,2,3-trichloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Vinyl chloride | Total MAH | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | Styrene |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| TP18/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.4-0.5 ENM | 13/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.2 ACM | 13/07/2022 | 907569 | Soil | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 ACM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.0-1.1 | 13/07/2022 | 907569 | Soil | 1 - 1.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.2-1.3 | 13/07/2022 | 907569 | Soil | 1.2 - 1.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA04 | 13/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA04A | 13/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.9-1.0 | 13/07/2022 | 907569 | Soil | 0.9 - 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/2.4-2.5 | 13/07/2022 | 907569 | Soil | 2.4 - 2.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 ENM | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 SOIL | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 ENM | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.20-0.25 | 13/07/2022 | 907569 | Soil | 0.2 - 0.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA06 | 13/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| COWRA_EIL | 14/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP SPIKE | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP BLANK | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS01 | 17/01/2022 | ES2201531 | Soil | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS03_FRAG | 17/01/2022 | ES2201531 | Soil | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0.9-1.0 | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP02_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP02_0.3-0.4 | 17/01/2022 | ES2201531 | Soil | 0.3-0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP03_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP04_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP04_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.4-0.5 | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.9-1.0 | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_2.1-2.3 | 17/01/2022 | ES2201531 | Soil | 2.1-2.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP06_0-0.05 | 17/01/2022 | ES2201531 | Soil | 0-0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP07_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0.4-0.5 | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP09_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP09_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP10_0.1-0.2 | 17/01/2022 | ES2201531 | Soil | 0.1-0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP10_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Average** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Notes**
*% Reported for vegetable matter, all other material <LOR
**QA samples not used for the average calculation; Values <LOR have been set to 50% of the LOR; PSI data included for purposes of ENM average calculations; samples of ash layers excluded from ENM average calculations

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | PCBs | | | | | | | | | | | | | | | | | | | | Solvents | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157) | Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167) | Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169) | PCB 118 | PCBs (Sum of total) | Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123) | Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126) | Tetrachlorobiphenyl, 3,3,4,4- (PCB 77) | Tetrachlorobiphenyl, 3,4,4,5- (PCB 81) | Methyl Ethyl Ketone | 4-Methyl-2-pentanone | Acetone | Allyl chloride | Carbon disulfide |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.1 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.0000001 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| NSW 2014 Excavated Natural Material (Absolute Max) | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Excavated Natural Material (Max Average) | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | | | | | | | | 50 | | | | | | | 4,000 | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | | | | | | | | 50 | | | | | | | 16,000 | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | | | | | | | | 50 | | | | | | | 7,200 | | | | |
| NSW 2014 General Solid Waste TCLP1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | | | | | | | | 50 | | | | | | | 28,800 | | | | |
| NSW 2014 General Solid Waste TCLP2 | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sample ID | Sample Date | Report Reference | Sample Matrix | Sample Depth (m bgl) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CT01 | 14/07/2022 | 907569 | Soil | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CT02 | 14/07/2022 | 907569 | Soil | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH12/0.0-0.1 | 11/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH12/0.3-0.5 | 11/07/2022 | 907569 | Soil | 0.3 - 0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - |
| QA01 | 11/07/2022 | 907569 | Soil | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - |
| QA01A | 11/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| BH12/0.5-0.6 | 11/07/2022 | 907569 | Soil | 0.5 - 0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0000001 | <0.0000001 | <0.0000001 | <0.0000001 | <0.0000001 | 0.000028 | <0.1 | 0.0000082 | <0.0000001 | <0.0000001 | <0.0000001 | 0.0000094 | <0.0000001 | - | - | - | - | - |
| BH12/0.9-1.0 | 11/07/2022 | 907569 | Soil | 0.9 - 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| BH12/1.9-2.0 | 11/07/2022 | 907569 | Soil | 1.9 - 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
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| BH29/0.5-0.6 | 12/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
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| QA02A | 12/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH29/1.9-2.0 | 12/07/2022 | 907569 | Soil | 1.9 - 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH29/2.0-2.5 ENM | 12/07/2022 | 907569 | Soil | 2 - 2.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/0.3-0.4 | 12/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/0.4-0.6 ENM | 12/07/2022 | 907569 | Soil | 0.4 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/1.9-2.0 | 12/07/2022 | 907569 | Soil | 1.9 - 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH30/2.9-3.0 | 12/07/2022 | 907569 | Soil | 2.9 - 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH32/0.4-0.5 | 12/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH32/1.9-2.0 | 12/07/2022 | 907569 | Soil | 1.9 - 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH32/3.9-4.0 | 12/07/2022 | 907569 | Soil | 3.9 - 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH33/0.3-0.4 | 12/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH33/0.9-1.0 | 12/07/2022 | 907569 | Soil | 0.9 - 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA31/0.1-0.2 | 12/07/2022 | 907569 | Soil | 0.1 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| HA37/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| HA40/0.15-0.25 | 12/07/2022 | 907569 | Soil | 0.15 - 0.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA41/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA41/0.4-0.5 | 14/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA42/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA43/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| QA08 | 14/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA08A | 14/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA44/0.0-0.1 | 14/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA44/0.2-0.3 | 14/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| SS48/0.15-0.20 | 14/07/2022 | 907569 | Soil | 0.15 - 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
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| SS49/0.15-0.20 | 14/07/2022 | 907569 | Soil | 0.15 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| SS51/0.05-0.10 | 14/07/2022 | 907569 | Soil | 0.05 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| SS53/0.15-0.20 | 11/07/2022 | 907569 | Soil | 0.15 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| QA03A | 12/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| TP11/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP11/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP13/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP13/0.4-0.5 | 13/07/2022 | 907569 | Soil | 0.4 - 0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
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| TP14/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP14/0.5 ACM | 13/07/2022 | 907569 | Soil | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP15/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP15/0.2-0.3 ENM | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| TP16/0.7-0.8 | 13/07/2022 | 907569 | Soil | 0.7 - 0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
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| TP17/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP17/0.0-0.2 ENM | 13/07/2022 | 907569 | Soil | 0 - 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | PCBs | | | | | | | | | | | | | | | | | | Solvents | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | Heptachlorobiphenyl, 2,3,3,4,4,5,5'- (PCB 189) | Hexachlorobiphenyl, 2,3,3,4,4,5'- (PCB 156) | Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157) | Hexachlorobiphenyl, 2,3,4,4,5,5'- (PCB 167) | Hexachlorobiphenyl, 3,3,4,4,5,5'- (PCB 169) | PCB 118 | PCBs (Sum of total) | Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105) | Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114) | Pentachlorobiphenyl, 2,3,4,4,5'- (PCB 123) | Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126) | Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77) | Tetrachlorobiphenyl, 3,4,4,5- (PCB 81) | Methyl Ethyl Ketone | 4-Methyl-2-pentanone | Acetone | Allyl chloride | Carbon disulfide |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| TP18/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.4-0.5 ENM | 13/07/2022 | 907569 | Soil | 0.4 - 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP18/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.2 ACM | 13/07/2022 | 907569 | Soil | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 ACM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.0-1.1 | 13/07/2022 | 907569 | Soil | 1 - 1.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP19/1.2-1.3 | 13/07/2022 | 907569 | Soil | 1.2 - 1.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | - | - | - | - | - | - | <1 | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.0000001 | 0.000016 | 0.0000027 | 0.000039 | <0.0000001 | 0.00022 | <1 | 0.000053 | 0.000013 | 0.000037 | <0.0000001 | 0.000018 | <0.0000001 | - | - | - | - | - |
| QA04 | 13/07/2022 | 907569 | Soil | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0000001 | 0.0000036 | <0.0000001 | 0.0000081 | <0.0000001 | 0.000053 | <0.1 | 0.000017 | <0.0000001 | 0.0000014 | <0.0000001 | 0.000023 | <0.0000001 | - | - | - | - | - |
| QA04A | 13/07/2022 | ES2225933 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/0.9-1.0 | 13/07/2022 | 907569 | Soil | 0.9 - 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP20/2.4-2.5 | 13/07/2022 | 907569 | Soil | 2.4 - 2.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0000001 | 0.000013 | <0.0000001 | 0.000019 | <0.0000001 | 0.00015 | <0.1 | 0.00004 | 0.0000094 | 0.00002 | <0.0000001 | 0.0000075 | <0.0000001 | - | - | - | - | - |
| TP21/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 ENM | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP21/0.2-0.3 SOIL | 13/07/2022 | 907569 | Soil | 0.2 - 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 ENM | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP22/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.0-0.1 SOIL | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP23/0.20-0.25 | 13/07/2022 | 907569 | Soil | 0.2 - 0.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP24/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP25/0.5-0.6 | 13/07/2022 | 907569 | Soil | 0.5 - 0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QA06 | 13/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP26/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 ENM | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP27/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.0-0.1 | 13/07/2022 | 907569 | Soil | 0 - 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| TP28/0.3-0.4 SOIL | 13/07/2022 | 907569 | Soil | 0.3 - 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| COWRA_EIL | 14/07/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP SPIKE | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SOIL TRIP BLANK | 30/06/2022 | 907569 | Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS01 | 17/01/2022 | ES2201531 | Soil | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS03_FRAG | 17/01/2022 | ES2201531 | Soil | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP01_0.9-1.0 | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP02_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP02_0.3-0.4 | 17/01/2022 | ES2201531 | Soil | 0.3-0.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP03_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP04_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP04_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.4-0.5 | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_0.9-1.0 | 17/01/2022 | ES2201531 | Soil | 0.9-1.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP05_2.1-2.3 | 17/01/2022 | ES2201531 | Soil | 2.1-2.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP06_0-0.05 | 17/01/2022 | ES2201531 | Soil | 0-0.05 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP07_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP08_0.4-0.5 | 17/01/2022 | ES2201531 | Soil | 0.4-0.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP09_0-0.1 | 17/01/2022 | ES2201531 | Soil | 0-0.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP09_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP10_0.1-0.2 | 17/01/2022 | ES2201531 | Soil | 0.1-0.2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TP10_0.2-0.3 | 17/01/2022 | ES2201531 | Soil | 0.2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Notes**
*% Reported for vegetable matter, all other material <LOR
**QA samples not used for the average calculation; Values <LOR have been set to 50% of the LOR; PSI data included for purposes of ENM average calculations; samples of ash layers excluded from ENM average calculations

**Environmental Standards**
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Absolute Max)
NSW EPA, November 2014, NSW 2014 Excavated Natural Material (Max Average)
NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

| | | | Field Parameters | | | | | TRH | | | | | | | BTEXN | | | | | | | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | pH | Electrical Conductivity | Temperature | Dissolved Oxygen | Redox Potential | C6-C10 Fraction (F1) | C6-C10 (F1 minus BTEX) | >C10-C16 Fraction (F2) | >C10-C16 Fraction (F2 minus Naphthalene) | >C16-C34 Fraction (F3) | >C34-C40 Fraction (F4) | >C10-C40 Fraction (Sum) | Naphthalene (VOC) | Benzene | Toluene | Ethylbenzene | Xylene (m & p) | Xylene (o) | Xylene Total | Total BTEX | Arsenic (filtered) | Cadmium (filtered) | Chromium (III+VI) (filtered) | Copper (filtered) | Lead (filtered) | Mercury (filtered) | Nickel (filtered) | Zinc (filtered) |
| | | | µS/cm | °C | % | mV | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | | | | | | 20 | 20 | 50 | 50 | 100 | 100 | 100 | 5 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 0.1 | 1 | 1 | 1 | 0.1 | 1 | 5 |
| ANZG (2018) Freshwater 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | 16 | 950 | 180 | 80 | 75 | 350 | | | 2.3 | | 1 | 1.4 | 3.4 | | 11 | 8 |
| ANZG (2018) Freshwater 99% LOSP Toxicant DGVs | | | | | | | | | | | | | | | | | | | | | | | | 0.06 | | | | 0.06 | | |
| Lachlan River WQOs | | | 6.5-8.0 | 30-350 | | 90-110 | | | | | | | | | | | | | | | | | | | | | | | | |
| Drinking Water (NHMRC 2011) | | | 6.5-8.5 | | | >85 | | 1,300 | | 100 | | 800 | 800 | | | 1 | 800 | 300 | 600 | 600 | | | 10 | 2 | 50 | 2,000 | 10 | 1 | 20 | |
| NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand | | | | | | | | | 6,000 | | #9 | | | | | 5,000 | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Field ID** | **Date** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BH08** | **19/07/2022** | **907760** | 7.18 | 2307 | 17.1 | 0.000321 | 177.1 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| **BH29** | **19/07/2022** | **907760** | 5.45 | 415 | 17.8 | 0.000548 | 193.1 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | **1** | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| **BH32** | **19/07/2022** | **907760** | | | | | | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| **QA09** | **19/07/2022** | **907760** | | | | | | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | <1 | <0.2 | **1** | <1 | <1 | <0.1 | <1 | <5 |
| **QA09A** | **19/07/2022** | **ES2225932** | 6.77 | 861 | 19.1 | 0.000393 | 184.5 | <20 | <20 | <100 | <100 | <100 | <100 | <100 | <5 | <1 | <2 | <2 | <2 | <2 | <2 | <1 | <1 | <0.1 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| **RINSATE01** | **11/07/2022** | **907569** | - | - | - | - | - | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| **RINSATE02** | **12/07/2022** | **907569** | - | - | - | - | - | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| **RINSATE03** | **14/07/2022** | **907569** | - | - | - | - | - | <20 | <20 | <50 | <50 | <100 | <100 | <100 | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | <1 | <0.2 | <1 | **1** | <1 | <0.1 | <1 | <5 |
| **TRIP SPIKE** | **19/072022** | **907560** | - | - | - | - | - | - | - | - | - | - | - | - | - | 120% | 120% | 120% | 120% | 110% | 120% | - | - | - | - | - | - | - | - | - |
| **TRIP BLANK** | **19/07/2022** | **907760** | - | - | - | - | - | <20 | <20 | - | - | - | - | - | <10 | <1 | <1 | <1 | <2 | <1 | <3 | - | - | - | - | - | - | - | - | - |
| **Statistics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Minimum Concentration** | | | | | | | | **<20** | **<20** | **<50** | **<50** | **<100** | **<100** | **<100** | **<5** | **<1** | **<1** | **<1** | **<2** | **<1** | **<2** | **<1** | **<1** | **<0.1** | **1** | **<1** | **<1** | **<0.1** | **<1** | **<5** |
| **Minimum Detect** | | | | | | | | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **1** | **ND** | **ND** | **ND** | **ND** | **ND** |
| **Maximum Concentration** | | | | | | | | **<20** | **<20** | **<100** | **<100** | **<100** | **<100** | **<100** | **<10** | **<1** | **<2** | **<2** | **<2** | **<2** | **<3** | **<1** | **<1** | **<0.2** | **1** | **<1** | **<1** | **<0.1** | **<1** | **<5** |
| **Maximum Detect** | | | | | | | | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **1** | **ND** | **ND** | **ND** | **ND** | **ND** |

* A Non Detect Multiplier of 0.5 has been applied.

**Environmental Standards**
ANZG, March 2021, ANZG (2018) Freshwater 95% LOSP Toxicant DGVs
ANZG, March 2021, ANZG (2018) Freshwater 99% LOSP Toxicant DGVs
National Health and Medical Research Council, 2011, Drinking Water (NHMRC 2011)
2013, NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand
Lachlan River Water Quality Objectives

| | | | PAH | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sum of 16 USEPA Priority PAHs | Benzo(b+j+k)fluoranthene | 2-methylnaphthalene | 3-methylcholanthrene | 7,12-dimethylbenz(a)anthracene | Acenaphthene | Acenaphthylene | Anthracene | Coronene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene | Benzo(e)pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Perylene | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | 0.001 | 0.004 | 0.002 | 0.004 | 0.001 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 | 0.004 | 0.001 | 0.002 | 0.004 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.01 |
| ANZG (2018) Freshwater 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | | | | | | | | | 16 | | | | | | | |
| ANZG (2018) Freshwater 99% LOSP Toxicant DGVs | | | | | | | | | | 0.01 | | | 0.1 | | | | | | | 1 | | | | 0.6 | | | | | | |
| Lachlan River WQOs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drinking Water (NHMRC 2011) | | | | | | | | | | | | | 0.01 | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Field ID** | **Date** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BH08** | **19/07/2022** | **907760** | - | - | - | - | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | - | - | - | <0.01 |
| **BH29** | **19/07/2022** | **907760** | - | - | - | - | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | - | - | - | <0.01 |
| **BH32** | **19/07/2022** | **907760** | - | - | - | - | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | - | - | - | <0.01 |
| **QA09** | **19/07/2022** | **907760** | - | - | - | - | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | - | - | - | <0.01 |
| **QA09A** | **19/07/2022** | **ES2225932** | <0.005 | <0.020 | <0.010 | <0.020 | <0.005 | <0.010 | <0.010 | <0.005 | <0.010 | <0.010 | <0.005 | <0.020 | <0.005 | <0.010 | <0.020 | <0.005 | <0.005 | <0.005 | <0.010 | <0.010 | <0.020 | <0.010 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| **RINSATE01** | **11/07/2022** | **907569** | - | - | - | - | - | <1 | <1 | <1 | - | <1 | <1 | <1 | - | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | - | <1 | - | - | - | <1 |
| **RINSATE02** | **12/07/2022** | **907569** | - | - | - | - | - | <1 | <1 | <1 | - | <1 | <1 | <1 | - | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | - | <1 | - | - | - | <1 |
| **RINSATE03** | **14/07/2022** | **907569** | - | - | - | - | - | <1 | <1 | <1 | - | <1 | <1 | <1 | - | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | - | <1 | - | - | - | <1 |
| **TRIP SPIKE** | **19/072022** | **907560** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TRIP BLANK** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Statistics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Minimum Concentration** | | | **<0.005** | **<0.00002** | **<0.01** | **<0.02** | **<0.005** | **<0.01** | **<0.01** | **<0.005** | **<0.01** | **<0.01** | **<0.005** | **<0.00001** | **<0.005** | **<0.01** | **<0.01** | **<0.005** | **<0.005** | **<0.005** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **<0.01** |
| **Minimum Detect** | | | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** |
| **Maximum Concentration** | | | **<0.005** | **<0.00002** | **<0.01** | **<0.02** | **<0.005** | **<1** | **<1** | **<1** | **<0.01** | **<1** | **<1** | **<0.001** | **<0.005** | **<1** | **<1** | **<1** | **<1** | **<1** | **<1** | **<1** | **<1** | **<1** | **<1** | **<0.01** | **<1** | **<0.005** | **<0.005** | **<0.005** | **<1** |
| **Maximum Detect** | | | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** |

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**Environmental Standards**
ANZG, March 2021, ANZG (2018) Freshwater 95% LOSP Toxicant DGVs
ANZG, March 2021, ANZG (2018) Freshwater 99% LOSP Toxicant DGVs
National Health and Medical Research Council, 2011, Drinking Water (NHMRC 201
2013, NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand
Lachlan River Water Quality Objectives

| | | | PCBs | | | | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | PCBs (Sum of total) | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | Chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 2 | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 5 |
| ANZG (2018) Freshwater 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | 0.001 | | | | | | | | 0.01 | | | | | | | 0.2 | | | 0.1 | | | |
| ANZG (2018) Freshwater 99% LOSP Toxicant DGVs | | | | | | 0.3 | | 0.01 | | | | | | | | | | 0.03 | | | 0.006 | | | 0.03 | | | 0.01 | | | 0.07 | 0.01 | | 0.05 | | 0.1 |
| Lachlan River WQOs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drinking Water (NHMRC 2011) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Field ID** | **Date** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BH08** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH29** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **BH32** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA09** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **QA09A** | **19/07/2022** | **ES2225932** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RINSATE01** | **11/07/2022** | **907569** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <2 | <2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <5 |
| **RINSATE02** | **12/07/2022** | **907569** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <5 |
| **RINSATE03** | **14/07/2022** | **907569** | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <2 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <10 |
| **TRIP SPIKE** | **19/072022** | **907560** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TRIP BLANK** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Statistics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Minimum Concentration** | | | **<5** | **<5** | **<5** | **<5** | **<5** | **<5** | **<5** | **<2** | **<2** | **<2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<0.2** | **<5** |
| **Minimum Detect** | | | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** |
| **Maximum Concentration** | | | **<5** | **<5** | **<5** | **<5** | **<5** | **<5** | **<5** | **<5** | **<2** | **<2** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<2** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<10** |
| **Maximum Detect** | | | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** |

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ANZG, March 2021, ANZG (2018) Freshwater 95% LOSP Toxicant DGVs
ANZG, March 2021, ANZG (2018) Freshwater 99% LOSP Toxicant DGVs
National Health and Medical Research Council, 2011, Drinking Water (NHMRC 2011
2013, NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand
Lachlan River Water Quality Objectives

| | | | Organophosphorous Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TPH | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | EPN | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Parathion | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Trichloronate | Tetrachlorvinphos | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | 2 | 2 | 2 | 20 | 2 | 2 | 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 20 | 2 | 2 | 2 | 2 | 2 | 20 | 50 | 100 | 50 | 50 |
| ANZG (2018) Freshwater 95% LOSP Toxicant DGVs | | | | 0.02 | | | 0.01 | | | | | 0.01 | | 0.15 | | | | 0.2 | | | | 0.05 | | | | | | | 0.004 | | | | | | | | | | | |
| ANZG (2018) Freshwater 99% LOSP Toxicant DGVs | | | | 0.01 | | | 0.00004 | | | | | 0.00003 | | 0.1 | | | | 0.1 | | | | 0.002 | | | | | | | 0.0007 | | | | | | | | | | | |
| Lachlan River WQOs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drinking Water (NHMRC 2011) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Field ID** | **Date** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BH08** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <20 | <50 | <100 | <100 | <100 |
| **BH29** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <20 | <50 | <100 | <100 | <100 |
| **BH32** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <20 | <50 | <100 | <100 | <100 |
| **QA09** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <20 | <50 | <100 | <100 | <100 |
| **QA09A** | **19/07/2022** | **ES2225932** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <20 | <50 | <100 | <50 | <50 |
| **RINSATE01** | **11/07/2022** | **907569** | <2 | <2 | <2 | <20 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <5 | <2 | <2 | <2 | <20 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <20 | <50 | <100 | <100 | <100 |
| **RINSATE02** | **12/07/2022** | **907569** | <2 | <2 | <2 | <20 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <20 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <20 | <50 | <100 | <100 | <100 |
| **RINSATE03** | **14/07/2022** | **907569** | <5 | <5 | <5 | <20 | <50 | <5 | <50 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <20 | <50 | <100 | <100 | <100 |
| **TRIP SPIKE** | **19/072022** | **907560** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **TRIP BLANK** | **19/07/2022** | **907760** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <20 | - | - | - | - |
| **Statistics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Minimum Concentration** | | | <2 | <2 | <2 | <20 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <20 | <2 | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <20 | <50 | <100 | <50 | <50 |
| **Minimum Detect** | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **Maximum Concentration** | | | <5 | <5 | <5 | <20 | <50 | <5 | <50 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 | <5 | <5 | <50 | <5 | <5 | <5 | <5 | <5 | <20 | <50 | <100 | <100 | <100 |
| **Maximum Detect** | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

* A Non Detect Multiplier of 0.5 has been applied.

**Environmental Standards**
ANZG, March 2021, ANZG (2018) Freshwater 95% LOSP Toxicant DGVs
ANZG, March 2021, ANZG (2018) Freshwater 99% LOSP Toxicant DGVs
National Health and Medical Research Council, 2011, Drinking Water (NHMRC 201
2013, NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand
Lachlan River Water Quality Objectives

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Field ID | BH12/0.3-0.5 | QA01 | | BH12/0.3-0.5 | QA01A | | BH29/0.5-0.6 | QA02 | | BH29/0.5-0.6 | QA02A | | SS55/0.00-0.05 | QA03 | |
| | | Date | 11/07/2022 | 11/07/2022 | | 11/07/2022 | 11/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | |
| | | Lab Report Number | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | |
| | | Matrix Type | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | LOR | | | | | | | | | | | | | | | |
| **BTEX** | | | | | | | | | | | | | | | | | |
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.2 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.2 | 0 | <0.1 | <0.1 | 0 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 |
| Xylene (m & p) | mg/kg | 0.2 | <0.2 | <0.2 | 0 | <0.2 | <0.5 | 0 | <0.2 | <0.2 | 0 | <0.2 | <0.5 | 0 | <0.2 | <0.2 | 0 |
| Xylene (o) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 |
| Xylene Total | mg/kg | 0.3 | <0.3 | <0.3 | 0 | <0.3 | <0.5 | 0 | <0.3 | <0.3 | 0 | <0.3 | <0.5 | 0 | <0.3 | <0.3 | 0 |
| **Inorganics** | | | | | | | | | | | | | | | | | |
| Conductivity (1:5 aqueous extract) | µS/cm | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **VOCs** | | | | | | | | | | | | | | | | | |
| Naphthalene (VOC) | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <1 | 0 | <0.5 | <0.5 | 0 | <0.5 | <1 | 0 | <0.5 | <0.5 | 0 |
| **TPH** | | | | | | | | | | | | | | | | | |
| C6-C9 Fraction | mg/kg | 10 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 |
| C10-C14 Fraction | mg/kg | 20 | <20 | <20 | 0 | <20 | <50 | 0 | <20 | <20 | 0 | <20 | <50 | 0 | <20 | <20 | 0 |
| C15-C28 Fraction | mg/kg | 50 | <50 | <50 | 0 | <50 | <100 | 0 | <50 | <50 | 0 | <50 | <100 | 0 | <50 | <50 | 0 |
| C29-C36 Fraction | mg/kg | 50 | <50 | <50 | 0 | <50 | <100 | 0 | <50 | <50 | 0 | <50 | <100 | 0 | <50 | <50 | 0 |
| C10-C36 Fraction (Sum) | mg/kg | 50 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 |
| **TRH** | | | | | | | | | | | | | | | | | |
| C6-C10 (F1 minus BTEX) | mg/kg | 10 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 |
| C6-C10 Fraction (F1) | mg/kg | 10 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 |
| >C10-C16 Fraction (F2) | mg/kg | 50 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 |
| >C10-C16 Fraction (F2 minus Naphthalene) | mg/kg | 50 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 |
| >C16-C34 Fraction (F3) | mg/kg | 100 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 |
| >C34-C40 Fraction (F4) | mg/kg | 100 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 |
| >C10-C40 Fraction (Sum) | mg/kg | 50 | <100 | <100 | 0 | <100 | <50 | 0 | <100 | <100 | 0 | <100 | <50 | 0 | <100 | <100 | 0 |
| **PAH** | | | | | | | | | | | | | | | | | |
| Acenaphthene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Acenaphthylene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Anthracene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Benz(a)anthracene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Benzo(a) pyrene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Benzo(b+j)fluoranthene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Benzo(g,h,i)perylene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Benzo(k)fluoranthene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Chrysene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Dibenz(a,h)anthracene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Fluoranthene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Fluorene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Naphthalene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Phenanthrene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Pyrene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| Benzo(a)pyrene TEQ calc (Half) | mg/kg | 0.5 | **0.6** | **0.6** | 0 | **0.6** | **0.6** | 0 | **0.6** | **0.6** | 0 | **0.6** | **0.6** | 0 | **0.6** | **0.6** | 0 |
| Benzo(a)pyrene TEQ (LOR) | mg/kg | 0.5 | **1.2** | **1.2** | 0 | **1.2** | **1.2** | 0 | **1.2** | **1.2** | 0 | **1.2** | **1.2** | 0 | **1.2** | **1.2** | 0 |
| Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| PAHs (Sum of total) | mg/kg | 0.5 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 |
| **Halogenated Benzenes** | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Metals** | | | | | | | | | | | | | | | | | |
| Arsenic | mg/kg | 2 | **160** | **37** | 125 | **160** | <5 | 188 | <2 | <2 | 0 | <2 | <5 | 0 | - | - | - |
| Cadmium | mg/kg | 0.4 | <0.4 | <0.4 | 0 | <0.4 | <1 | 0 | <0.4 | <0.4 | 0 | <0.4 | <1 | 0 | - | - | - |
| Chromium (III+VI) | mg/kg | 2 | **36** | **34** | 6 | **36** | **36** | 0 | **39** | **36** | 8 | **39** | **28** | 33 | - | - | - |
| Copper | mg/kg | 5 | **49** | **19** | 88 | **49** | **13** | 116 | **14** | **12** | 15 | **14** | **10** | 33 | - | - | - |
| Lead | mg/kg | 5 | **20** | **27** | 30 | **20** | **29** | 37 | **7.6** | **10** | 27 | **7.6** | **21** | 94 | - | - | - |
| Mercury | mg/kg | 0.1 | **0.3** | **0.2** | 40 | **0.3** | <0.1 | 100 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Nickel | mg/kg | 2 | **28** | **17** | 49 | **28** | **11** | 87 | **17** | **17** | 0 | **17** | **11** | 43 | - | - | - |
| Zinc | mg/kg | 5 | **30** | **35** | 15 | **30** | **35** | 15 | **31** | **36** | 15 | **31** | **50** | 47 | - | - | - |

| | | | Field ID | BH12/0.3-0.5 | QA01 | | BH12/0.3-0.5 | QA01A | | BH29/0.5-0.6 | QA02 | | BH29/0.5-0.6 | QA02A | | SS55/0.00-0.05 | QA03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Date | 11/07/2022 | 11/07/2022 | | 11/07/2022 | 11/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | |
| | | | Lab Report Number | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | |
| | | | Matrix Type | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | LOR | | | | | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | |
| **Organochlorine pesticides EPAVic** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **Other organochlorine pesticides EPAVic** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **4,4-DDE** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **a-BHC** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Aldrin** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Aldrin + Dieldrin** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **b-BHC** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Chlordane** | mg/kg | 0.05 | | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **d-BHC** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **DDD** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **DDT** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **DDT+DDE+DDD** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Dieldrin** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endosulfan I** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endosulfan II** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endosulfan sulphate** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endrin** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endrin aldehyde** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endrin ketone** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **g-BHC (Lindane)** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Heptachlor** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Heptachlor epoxide** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Methoxychlor** | mg/kg | 0.05 | | <0.05 | <0.05 | 0 | <0.05 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Toxaphene** | mg/kg | 0.5 | | <0.5 | <0.5 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Organophosphorous Pesticides** | | | | | | | | | | | | | | | | | | |
| **Tokuthion** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Azinophos methyl** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Bolstar (Sulprofos)** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Chlorfenvinphos** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Chlorpyrifos** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Chlorpyrifos-methyl** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Coumaphos** | mg/kg | 2 | | <2 | <2 | 0 | <2 | - | - | - | - | - | - | - | - | - | - | - |
| **Demeton-O** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Demeton-S** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Diazinon** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Dichlorvos** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Dimethoate** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Disulfoton** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Ethion** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Ethoprop** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Fenitrothion** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Fensulfothion** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Fenthion** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **EPN** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Malathion** | mg/kg | 0.05 | | <0.2 | <0.2 | 0 | <0.2 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Merphos** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Methyl parathion** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Mevinphos (Phosdrin)** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Monocrotophos** | mg/kg | 0.2 | | <2 | <2 | 0 | <2 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Naled (Dibrom)** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Omethoate** | mg/kg | 2 | | <2 | <2 | 0 | <2 | - | - | - | - | - | - | - | - | - | - | - |
| **Phorate** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Prothiofos** | mg/kg | 0.05 | | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - |
| **Pyrazophos** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Ronnel** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Terbufos** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Trichloronate** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Tetrachlorvinphos** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |

| | | | Field ID | BH12/0.3-0.5 | QA01 | | BH12/0.3-0.5 | QA01A | | BH29/0.5-0.6 | QA02 | | BH29/0.5-0.6 | QA02A | | SS55/0.00-0.05 | QA03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Date | 11/07/2022 | 11/07/2022 | | 11/07/2022 | 11/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | |
| | | | Lab Report Number | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | |
| | | | Matrix Type | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | LOR | | | | | | | | | | | | | | | | |
| **Pesticides** | | | | | | | | | | | | | | | | | | |
| **Parathion** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Pirimiphos-methyl** | mg/kg | 0.2 | | <0.2 | <0.2 | 0 | <0.2 | - | - | - | - | - | - | - | - | - | - | - |
| **Pirimphos-ethyl** | mg/kg | 0.05 | | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - |
| **Dioxins and Furans** | | | | | | | | | | | | | | | | | | |
| **Total Penta CDF** | pg/g | 1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Tetra CDD** | pg/g | 0.1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Tetra CDF** | pg/g | 0.1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8-Heptachlorooxanthrene** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8-Heptachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,7,8,9-Heptachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,7,8-Hexachlorooxanthrene** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,7,8-Hexachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,6,7,8-Hexachlorooxanthrene** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,6,7,8-Hexachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8,9-Hexachlorooxanthrene** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8,9-Hexachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,7,8-Tetrachlorooxanthrene** | pg/g | 0.1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8-Pentachlorooxanthrene** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8-Pentachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,4,6,7,8-Hexachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,4,7,8-Pentachlorodibenzofuran** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,7,8-Tetrachlorodibenzofuran** | pg/g | 0.1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **HpCDD, 2,3,7,8-** | pg/g | 0.5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8,9-Octachlorooxanthrene** | pg/g | 1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8,9-Octachlorodibenzofuran** | pg/g | 1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins I-TEQ 0xLOR** | | | | | | | | | | | | | | | | | | |
| **Lower bound TEQ (International) based on PCDD/F*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins I-TEQ 0.5xLOR** | | | | | | | | | | | | | | | | | | |
| **Medium bound TEQ (International) based on PCDD/F*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins I-TEQ 1xLOR** | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (International) based on PCDD/F*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0xLOR** | | | | | | | | | | | | | | | | | | |
| **Lower bound TEQ (WHO) based on DL-PCB*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0.5xLOR** | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (WHO) based on DL-PCB*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 1xLOR** | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (WHO) based on DL-PCB*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0xLOR** | | | | | | | | | | | | | | | | | | |
| **Lower bound TEQ (WHO) based on PCDD/F*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0.5xLOR** | | | | | | | | | | | | | | | | | | |
| **Medium bound TEQ (WHO) based on PCDD/F*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 1xLOR** | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (WHO) based on PCDD/F*** | pg/g | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Field ID | BH12/0.3-0.5 | QA01 | | BH12/0.3-0.5 | QA01A | | BH29/0.5-0.6 | QA02 | | BH29/0.5-0.6 | QA02A | | SS55/0.00-0.05 | QA03 | |
| | | | Date | 11/07/2022 | 11/07/2022 | | 11/07/2022 | 11/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | | 12/07/2022 | 12/07/2022 | |
| | | | Lab Report Number | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | |
| | | | Matrix Type | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | LOR | | | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | | | | |
| **Arochlor 1016** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Arochlor 1221** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Arochlor 1232** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Arochlor 1242** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Arochlor 1248** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Arochlor 1254** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Arochlor 1260** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | <0.1 | - | - |
| **Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **PCB 118** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **PCBs (Sum of total)** | mg/kg | 0.1 | | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - | - | - | - | <0.1 | - | - |
| **Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)** | mg/kg | 0.0000001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 999 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 ( > 30 x EQL) ).
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.

| | | SS55/0.00-0.05 | QA03A | | TP20/0.3-0.4 | QA04 | | TP20/0.3-0.4 | QA04A | | TP26/0.3-0.4 | QA06 | | HA43/0.3-0.4 | QA08 | | HA43/0.3-0.4 | QA08A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/07/2022 | 12/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 14/07/2022 | 14/07/2022 | | 14/07/2022 | 14/07/2022 | |
| | Lab | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | 907569 | | 907569 | ES2225933 | |
| | | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | | | | | | | | | | | | | | | | | | |
| **BTEX** | | | | | | | | | | | | | | | | | | | |
| **Benzene** | mg/kg | <0.1 | <0.2 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.2 | 0 | <0.1 | <0.1 | 0 | - | - | - | - | - | - |
| **Toluene** | mg/kg | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | - | - | - | - | - | - |
| **Ethylbenzene** | mg/kg | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | - | - | - | - | - | - |
| **Xylene (m & p)** | mg/kg | <0.2 | <0.5 | 0 | <0.2 | <0.2 | 0 | <0.2 | <0.5 | 0 | <0.2 | <0.2 | 0 | - | - | - | - | - | - |
| **Xylene (o)** | mg/kg | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | <0.1 | <0.1 | 0 | - | - | - | - | - | - |
| **Xylene Total** | mg/kg | <0.3 | <0.5 | 0 | <0.3 | <0.3 | 0 | <0.3 | <0.5 | 0 | <0.3 | <0.3 | 0 | - | - | - | - | - | - |
| **Inorganics** | | | | | | | | | | | | | | | | | | | |
| **Conductivity (1:5 aqueous extract)** | µS/cm | - | - | - | - | - | - | - | - | - | **93** | **87** | 7 | - | - | - | - | - | - |
| **VOCs** | | | | | | | | | | | | | | | | | | | |
| **Naphthalene (VOC)** | mg/kg | <0.5 | <1 | 0 | <0.5 | <0.5 | 0 | <0.5 | <1 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **TPH** | | | | | | | | | | | | | | | | | | | |
| **C6-C9 Fraction** | mg/kg | <20 | <10 | 0 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 | - | - | - | - | - | - |
| **C10-C14 Fraction** | mg/kg | <20 | <50 | 0 | <20 | <20 | 0 | <20 | <50 | 0 | <20 | <20 | 0 | - | - | - | - | - | - |
| **C15-C28 Fraction** | mg/kg | <50 | <100 | 0 | <50 | <50 | 0 | <50 | <100 | 0 | **51** | **82** | 47 | - | - | - | - | - | - |
| **C29-C36 Fraction** | mg/kg | <50 | <100 | 0 | <50 | <50 | 0 | <50 | <100 | 0 | <50 | <50 | 0 | - | - | - | - | - | - |
| **C10-C36 Fraction (Sum)** | mg/kg | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | **51** | **82** | 47 | - | - | - | - | - | - |
| **TRH** | | | | | | | | | | | | | | | | | | | |
| **C6-C10 (F1 minus BTEX)** | mg/kg | <20 | <10 | 0 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 | - | - | - | - | - | - |
| **C6-C10 Fraction (F1)** | mg/kg | <20 | <10 | 0 | <20 | <20 | 0 | <20 | <10 | 0 | <20 | <20 | 0 | - | - | - | - | - | - |
| **>C10-C16 Fraction (F2)** | mg/kg | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | - | - | - | - | - | - |
| **>C10-C16 Fraction (F2 minus Naphthalene)** | mg/kg | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | <50 | <50 | 0 | - | - | - | - | - | - |
| **>C16-C34 Fraction (F3)** | mg/kg | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | **110** | 10 | - | - | - | - | - | - |
| **>C34-C40 Fraction (F4)** | mg/kg | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | <100 | <100 | 0 | - | - | - | - | - | - |
| **>C10-C40 Fraction (Sum)** | mg/kg | <100 | <50 | 0 | <100 | <100 | 0 | <100 | <50 | 0 | <100 | **110** | 10 | - | - | - | - | - | - |
| **PAH** | | | | | | | | | | | | | | | | | | | |
| **Acenaphthene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Acenaphthylene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Anthracene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Benz(a)anthracene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | **1** | 67 | - | - | - | - | - | - |
| **Benzo(a) pyrene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | **0.6** | 18 | - | - | - | - | - | - |
| **Benzo(b+j)fluoranthene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | **0.6** | 18 | - | - | - | - | - | - |
| **Benzo(g,h,i)perylene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Benzo(k)fluoranthene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | **0.7** | 33 | - | - | - | - | - | - |
| **Chrysene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | **1** | 67 | - | - | - | - | - | - |
| **Dibenz(a,h)anthracene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Fluoranthene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <2 | <2 | 0 | - | - | - | - | - | - |
| **Fluorene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Indeno(1,2,3-c,d)pyrene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Naphthalene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | - | - | - | - | - | - |
| **Phenanthrene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <1 | <2 | 0 | - | - | - | - | - | - |
| **Pyrene** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <2 | <2 | 0 | - | - | - | - | - | - |
| **Benzo(a)pyrene TEQ calc (Half)** | mg/kg | **0.6** | **0.6** | 0 | **0.6** | **0.6** | 0 | **0.6** | **0.6** | 0 | **0.6** | **1.1** | 59 | - | - | - | - | - | - |
| **Benzo(a)pyrene TEQ (LOR)** | mg/kg | **1.2** | **1.2** | 0 | **1.2** | **1.2** | 0 | **1.2** | **1.2** | 0 | **1.2** | **1.4** | 15 | - | - | - | - | - | - |
| **Benzo(a)pyrene TEQ calc (Zero)** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | **0.8** | 46 | - | - | - | - | - | - |
| **PAHs (Sum of total)** | mg/kg | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <0.5 | <0.5 | 0 | <2 | **3.9** | 64 | - | - | - | - | - | - |
| **Halogenated Benzenes** | | | | | | | | | | | | | | | | | | | |
| **Hexachlorobenzene** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Metals** | | | | | | | | | | | | | | | | | | | |
| **Arsenic** | mg/kg | - | - | - | **2.4** | <2 | 18 | **2.4** | <5 | 0 | **2** | <2 | 0 | - | - | - | - | - | - |
| **Cadmium** | mg/kg | - | - | - | <0.4 | <0.4 | 0 | <0.4 | <1 | 0 | <0.4 | <0.4 | 0 | - | - | - | - | - | - |
| **Chromium (III+VI)** | mg/kg | - | - | - | **11** | **12** | 9 | **11** | **6** | 59 | **20** | **28** | 33 | - | - | - | - | - | - |
| **Copper** | mg/kg | - | - | - | **11** | **14** | 24 | **11** | **11** | 0 | **13** | **13** | 0 | - | - | - | - | - | - |
| **Lead** | mg/kg | - | - | - | **22** | **25** | 13 | **22** | **18** | 20 | **370** | **380** | 3 | **13** | **8.9** | 37 | **13** | **10** | 26 |
| **Mercury** | mg/kg | - | - | - | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | **0.4** | **0.2** | 67 | - | - | - | - | - | - |
| **Nickel** | mg/kg | - | - | - | **7.8** | **8.7** | 11 | **7.8** | **4** | 64 | **9.6** | **12** | 22 | - | - | - | - | - | - |
| **Zinc** | mg/kg | - | - | - | **62** | **70** | 12 | **62** | **98** | 45 | **140** | **120** | 15 | **31** | **28** | 10 | **31** | **23** | 30 |

| | | SS55/0.00-0.05 | QA03A | | TP20/0.3-0.4 | QA04 | | TP20/0.3-0.4 | QA04A | | TP26/0.3-0.4 | QA06 | | HA43/0.3-0.4 | QA08 | | HA43/0.3-0.4 | QA08A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/07/2022 | 12/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 14/07/2022 | 14/07/2022 | | 14/07/2022 | 14/07/2022 | |
| | Lab | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | 907569 | | 907569 | ES2225933 | |
| | | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | | | | | | | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | |
| **Organochlorine pesticides EPAVic** | mg/kg | - | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Other organochlorine pesticides EPAVic** | mg/kg | - | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **4,4-DDE** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **a-BHC** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Aldrin** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Aldrin + Dieldrin** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **b-BHC** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Chlordane** | mg/kg | - | - | - | <1 | <0.1 | 0 | <1 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **d-BHC** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **DDD** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **DDT** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **DDT+DDE+DDD** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Dieldrin** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endosulfan I** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endosulfan II** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endosulfan sulphate** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endrin** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endrin aldehyde** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Endrin ketone** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **g-BHC (Lindane)** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Heptachlor** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Heptachlor epoxide** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Methoxychlor** | mg/kg | - | - | - | <0.5 | <0.05 | 0 | <0.5 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Toxaphene** | mg/kg | - | - | - | <10 | <0.5 | 0 | <10 | - | - | - | - | - | - | - | - | - | - | - |
| **Organophosphorous Pesticides** | | | | | | | | | | | | | | | | | | | |
| **Tokuthion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Azinophos methyl** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Bolstar (Sulprofos)** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Chlorfenvinphos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Chlorpyrifos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Chlorpyrifos-methyl** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Coumaphos** | mg/kg | - | - | - | <5 | <2 | 0 | <5 | - | - | - | - | - | - | - | - | - | - | - |
| **Demeton-O** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Demeton-S** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Diazinon** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Dichlorvos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Dimethoate** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Disulfoton** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Ethion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Ethoprop** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Fenitrothion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Fensulfothion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Fenthion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **EPN** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Malathion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.05 | 0 | - | - | - | - | - | - | - | - | - |
| **Merphos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Methyl parathion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Mevinphos (Phosdrin)** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Monocrotophos** | mg/kg | - | - | - | <5 | <2 | 0 | <5 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Naled (Dibrom)** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Omethoate** | mg/kg | - | - | - | <5 | <2 | 0 | <5 | - | - | - | - | - | - | - | - | - | - | - |
| **Phorate** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Prothiofos** | mg/kg | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - |
| **Pyrazophos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Ronnel** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Terbufos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Trichloronate** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Tetrachlorvinphos** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |

| | | SS55/0.00-0.05 | QA03A | | TP20/0.3-0.4 | QA04 | | TP20/0.3-0.4 | QA04A | | TP26/0.3-0.4 | QA06 | | HA43/0.3-0.4 | QA08 | | HA43/0.3-0.4 | QA08A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/07/2022 | 12/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 14/07/2022 | 14/07/2022 | | 14/07/2022 | 14/07/2022 | |
| | Lab | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | 907569 | | 907569 | ES2225933 | |
| | | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | | | | | | | | | | | | | | | | | | |
| **Pesticides** | | | | | | | | | | | | | | | | | | | |
| **Parathion** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | <0.2 | 0 | - | - | - | - | - | - | - | - | - |
| **Pirimiphos-methyl** | mg/kg | - | - | - | <0.5 | <0.2 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **Pirimphos-ethyl** | mg/kg | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - |
| **Dioxins and Furans** | | | | | | | | | | | | | | | | | | | |
| **Total Penta CDF** | pg/g | - | - | - | <1 | <1.5 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Total Tetra CDD** | pg/g | - | - | - | **27** | **54** | 67 | **27** | - | - | - | - | - | - | - | - | - | - | - |
| **Total Tetra CDF** | pg/g | - | - | - | <0.1 | **59** | 199 | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8-Heptachlorooxanthrene** | pg/g | - | - | - | **10** | **7.3** | 31 | **10** | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8-Heptachlorodibenzofuran** | pg/g | - | - | - | **1.8** | **1.6** | 12 | **1.8** | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,7,8,9-Heptachlorodibenzofuran** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,7,8-Hexachlorooxanthrene** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,7,8-Hexachlorodibenzofuran** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,6,7,8-Hexachlorooxanthrene** | pg/g | - | - | - | **1.4** | <0.7 | 67 | **1.4** | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,6,7,8-Hexachlorodibenzofuran** | pg/g | - | - | - | **1** | **1.1** | 10 | **1** | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8,9-Hexachlorooxanthrene** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8,9-Hexachlorodibenzofuran** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,7,8-Tetrachlorooxanthrene** | pg/g | - | - | - | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8-Pentachlorooxanthrene** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,7,8-Pentachlorodibenzofuran** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,4,6,7,8-Hexachlorodibenzofuran** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,4,7,8-Pentachlorodibenzofuran** | pg/g | - | - | - | <0.5 | <0.7 | 0 | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| **2,3,7,8-Tetrachlorodibenzofuran** | pg/g | - | - | - | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - | - | - | - | - | - | - |
| **HpCDD, 2,3,7,8-** | pg/g | - | - | - | **22** | **5.4** | 121 | **22** | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8,9-Octachlorooxanthrene** | pg/g | - | - | - | **34** | **21** | 47 | **34** | - | - | - | - | - | - | - | - | - | - | - |
| **1,2,3,4,6,7,8,9-Octachlorodibenzofuran** | pg/g | - | - | - | **1.9** | **18** | 162 | **1.9** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins I-TEQ 0xLOR** | | | | | | | | | | | | | | | | | | | |
| **Lower bound TEQ (International) based on PCDD/F*** | pg/g | - | - | - | **0.4** | **0.20** | 17 | **0.9** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins I-TEQ 0.5xLOR** | | | | | | | | | | | | | | | | | | | |
| **Medium bound TEQ (International) based on PCDD/F*** | pg/g | - | - | - | **0.9** | **0.90** | 0 | **0.4** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins I-TEQ 1xLOR** | | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (International) based on PCDD/F*** | pg/g | - | - | - | **1.3** | **1.6** | 5 | **1.4** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0xLOR** | | | | | | | | | | | | | | | | | | | |
| **Lower bound TEQ (WHO) based on DL-PCB*** | pg/g | - | - | - | **0.0094** | **0.0022** | 31 | **0.9** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0.5xLOR** | | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (WHO) based on DL-PCB*** | pg/g | - | - | - | **0.016** | **0.0098** | 12 | **0.4** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 1xLOR** | | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (WHO) based on DL-PCB*** | pg/g | - | - | - | **0.023** | **0.017** | 8 | **1.4** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0xLOR** | | | | | | | | | | | | | | | | | | | |
| **Lower bound TEQ (WHO) based on PCDD/F*** | pg/g | - | - | - | **0.4** | **0.2** | 17 | **0.4** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 0.5xLOR** | | | | | | | | | | | | | | | | | | | |
| **Medium bound TEQ (WHO) based on PCDD/F*** | pg/g | - | - | - | **0.9** | **1** | 3 | **0.9** | - | - | - | - | - | - | - | - | - | - | - |
| **Dioxins WHO-TEQ 1xLOR** | | | | | | | | | | | | | | | | | | | |
| **Upper bound TEQ (WHO) based on PCDD/F*** | pg/g | - | - | - | **1.4** | **1.8** | 6 | **1.4** | - | - | - | - | - | - | - | - | - | - | - |

| | | SS55/0.00-0.05 | QA03A | | TP20/0.3-0.4 | QA04 | | TP20/0.3-0.4 | QA04A | | TP26/0.3-0.4 | QA06 | | HA43/0.3-0.4 | QA08 | | HA43/0.3-0.4 | QA08A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/07/2022 | 12/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 13/07/2022 | 13/07/2022 | | 14/07/2022 | 14/07/2022 | | 14/07/2022 | 14/07/2022 | |
| | Lab | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | ES2225933 | | 907569 | 907569 | | 907569 | 907569 | | 907569 | ES2225933 | |
| | | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | | | | | | | | | | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | | | | | | |
| **Arochlor 1016** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Arochlor 1221** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Arochlor 1232** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Arochlor 1242** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Arochlor 1248** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Arochlor 1254** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Arochlor 1260** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | - | - | - | - | - | - | - | - | - | - | - |
| **Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)** | mg/kg | - | - | - | <0.0000001 | <0.0000001 | 0 | <0.0000001 | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)** | mg/kg | - | - | - | **0.000016** | **0.0000036** | 127 | **0.000016** | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)** | mg/kg | - | - | - | **0.0000027** | <0.0000001 | 186 | **0.0000027** | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)** | mg/kg | - | - | - | **0.000039** | **0.0000081** | 131 | **0.000039** | - | - | - | - | - | - | - | - | - | - | - |
| **Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)** | mg/kg | - | - | - | <0.0000001 | <0.0000001 | 0 | <0.0000001 | - | - | - | - | - | - | - | - | - | - | - |
| **PCB 118** | mg/kg | - | - | - | **0.00022** | **0.000053** | 122 | **0.00022** | - | - | - | - | - | - | - | - | - | - | - |
| **PCBs (Sum of total)** | mg/kg | <0.1 | - | - | <1 | <0.1 | 0 | <1 | <0.1 | 0 | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)** | mg/kg | - | - | - | **0.000053** | **0.000017** | 103 | **0.000053** | - | - | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)** | mg/kg | - | - | - | **0.000013** | <0.0000001 | 197 | **0.000013** | - | - | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)** | mg/kg | - | - | - | **0.000037** | **0.0000014** | 185 | **0.000037** | - | - | - | - | - | - | - | - | - | - | - |
| **Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)** | mg/kg | - | - | - | <0.0000001 | <0.0000001 | 0 | <0.0000001 | - | - | - | - | - | - | - | - | - | - | - |
| **Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)** | mg/kg | - | - | - | **0.000018** | **0.000023** | 24 | **0.000018** | - | - | - | - | - | - | - | - | - | - | - |
| **Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)** | mg/kg | - | - | - | <0.0000001 | <0.0000001 | 0 | <0.0000001 | - | - | - | - | - | - | - | - | - | - | - |

*RPDs have only been considered where a concentration is
times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile setting
RPDs for each EQL multiplier range are: 999 (1 - 10 x EQL); 3
EQL); 30 ( > 30 x EQL) ).
***Interlab Duplicates are matched on a per compound bas
vary between laboratories. Any methods in the row header
used in the primary laboratory.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Field ID | BH32 | QA09 | | BH32 | QA09A | | |
| | | Date | 19/07/2022 | 19/07/2022 | | 19/07/2022 | 19/07/2022 | | |
| | | Lab Report Number | 907760 | 907760 | | 907760 | ES2225932 | | |
| | | Matrix Type | Water | Water | RPD | Water | Water | RPD | |
| | Unit | LOR | | | | | | | |
| **TRH** | | | | | | | | | |
| C6-C10 Fraction (F1) | µg/L | 20 | <20 | <20 | 0 | <20 | <20 | 0 | |
| C6-C10 (F1 minus BTEX) | µg/L | 20 | <20 | <20 | 0 | <20 | <20 | 0 | |
| >C10-C16 Fraction (F2) | µg/L | 50 | <50 | <50 | 0 | <50 | <100 | 0 | |
| >C10-C16 Fraction (F2 minus Naphthalene) | µg/L | 50 | <50 | <50 | 0 | <50 | <100 | 0 | |
| >C16-C34 Fraction (F3) | µg/L | 100 | <100 | <100 | 0 | <100 | <100 | 0 | |
| >C34-C40 Fraction (F4) | µg/L | 100 | <100 | <100 | 0 | <100 | <100 | 0 | |
| >C10-C40 Fraction (Sum) | µg/L | 100 | <100 | <100 | 0 | <100 | <100 | 0 | |
| **BTEX** | | | | | | | | | |
| Naphthalene (VOC) | mg/L | 0.005 | <0.01 | <0.01 | 0 | <0.01 | <0.005 | 0 | |
| Benzene | µg/L | 1 | <1 | <1 | 0 | <1 | <1 | 0 | |
| Toluene | µg/L | 1 | <1 | <1 | 0 | <1 | <2 | 0 | |
| Ethylbenzene | µg/L | 1 | <1 | <1 | 0 | <1 | <2 | 0 | |
| Xylene (m & p) | µg/L | 2 | <2 | <2 | 0 | <2 | <2 | 0 | |
| Xylene (o) | µg/L | 1 | <1 | <1 | 0 | <1 | <2 | 0 | |
| Xylene Total | µg/L | 2 | <3 | <3 | 0 | <3 | <2 | 0 | |
| **Metals** | | | | | | | | | |
| Arsenic (filtered) | µg/L | 1 | <1 | <1 | 0 | <1 | <1 | 0 | |
| Cadmium (filtered) | µg/L | 0.1 | <0.2 | <0.2 | 0 | <0.2 | <0.1 | 0 | |
| Chromium (III+VI) (filtered) | µg/L | 1 | <1 | **1** | 0 | <1 | <1 | 0 | |
| Copper (filtered) | µg/L | 1 | <1 | <1 | 0 | <1 | <1 | 0 | |
| Lead (filtered) | µg/L | 1 | <1 | <1 | 0 | <1 | <1 | 0 | |
| Mercury (filtered) | µg/L | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | |
| Nickel (filtered) | µg/L | 1 | <1 | <1 | 0 | <1 | <1 | 0 | |
| Zinc (filtered) | µg/L | 5 | <5 | <5 | 0 | <5 | <5 | 0 | |
| **PAH** | | | | | | | | | |
| Acenaphthene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Acenaphthylene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Anthracene | µg/L | 0.001 | <0.01 | <0.01 | 0 | <0.01 | <0.005 #1 | 0 | |
| Benz(a)anthracene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Benzo(a) pyrene | µg/L | 0.001 | <0.01 | <0.01 | 0 | <0.01 | <0.005 #1 | 0 | |
| Benzo(b+j)fluoranthene | mg/L | 0.000004 | <0.00001 | <0.00001 | 0 | <0.00001 | <0.000020 #1 | 0 | |
| Benzo(g,h,i)perylene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Benzo(k)fluoranthene | µg/L | 0.004 | <0.01 | <0.01 | 0 | <0.01 | <0.020 #1 | 0 | |
| Chrysene | µg/L | 0.001 | <0.01 | <0.01 | 0 | <0.01 | <0.005 #1 | 0 | |
| Dibenz(a,h)anthracene | µg/L | 0.001 | <0.01 | <0.01 | 0 | <0.01 | <0.005 #1 | 0 | |
| Fluoranthene | µg/L | 0.001 | <0.01 | <0.01 | 0 | <0.01 | <0.005 #1 | 0 | |
| Fluorene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Indeno(1,2,3-c,d)pyrene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Naphthalene | µg/L | 0.004 | <0.01 | <0.01 | 0 | <0.01 | <0.020 #1 | 0 | |
| Phenanthrene | µg/L | 0.002 | <0.01 | <0.01 | 0 | <0.01 | <0.010 #1 | 0 | |
| Pyrene | µg/L | 0.001 | <0.01 | <0.01 | 0 | <0.01 | <0.005 #1 | 0 | |
| PAHs (Sum of total) | µg/L | 0.01 | <0.01 | <0.01 | 0 | <0.01 | - | - | |
| **TPH** | | | | | | | | | |
| C6-C9 Fraction | µg/L | 20 | <20 | <20 | 0 | <20 | <20 | 0 | |
| C10-C14 Fraction | µg/L | 50 | <50 | <50 | 0 | <50 | <50 | 0 | |
| C15-C28 Fraction | µg/L | 100 | <100 | <100 | 0 | <100 | <100 | 0 | |
| C29-C36 Fraction | µg/L | 50 | <100 | <100 | 0 | <100 | <50 | 0 | |
| C10-C36 Fraction (Sum) | µg/L | 50 | <100 | <100 | 0 | <100 | <50 | 0 | |

**Comments**
#1 Reported Analyte LOR is higher than Requested Analyte LOR

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 999 (1 - 10 x EQL); 30 (10 - 20 x EQL); 30 ( > 20 x EQL) )/**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory/**

| | Sample ID | BH12/0.5-0.6 | TP20/0.3-0.4 | TP20/2.4-2.5 | QA04 |
|---|---|---|---|---|---|
| | Sample Date | 11/07/2022 | 13/07/2022 | 13/07/2022 | 13/07/2022 |
| **Analyte ID** | **Units** | **LOR** | | | |
| Total Penta CDF | pg/g | 1 | 1.4 | 1 | 1 | 1.5 |
| Total Tetra CDD | pg/g | 0.1 | 0.1 | 27 | 8.3 | 54 |
| Total Tetra CDF | pg/g | 0.1 | 0.1 | 0.1 | 0.3 | 59 |
| | pg/g | 0.5 | 0.7 | 6.4 | 5.1 | 61 |
| | pg/g | 1.5 | 2.1 | 1.6 | 1.5 | 2.2 |
| | pg/g | 2 | 2.8 | 2.1 | 2.1 | 3 |
| | pg/g | 1 | 1.4 | 6.1 | 3.2 | 4 |
| 1,2,3,4,6,7,8-Heptachlorooxanthrene | pg/g | 0.5 | 0.7 | 10 | 4 | 7.3 |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | pg/g | 0.5 | 0.7 | 1.8 | 1.9 | 1.6 |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 1,2,3,4,7,8-Hexachlorooxanthrene | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 1,2,3,6,7,8-Hexachlorooxanthrene | pg/g | 0.5 | 0.7 | 1.4 | 0.5 | 0.7 |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | pg/g | 0.5 | 0.7 | 1 | 0.6 | 1.1 |
| 1,2,3,7,8,9-Hexachlorooxanthrene | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 2,3,7,8-Tetrachlorooxanthrene | pg/g | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 1,2,3,7,8-Pentachlorooxanthrene | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 1,2,3,7,8-Pentachlorodibenzofuran | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 2,3,4,7,8-Pentachlorodibenzofuran | pg/g | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 |
| 2,3,7,8-Tetrachlorodibenzofuran | pg/g | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| HpCDD, 2,3,7,8- | pg/g | 0.5 | 0.7 | 22 | 13 | 5.4 |
| 1,2,3,4,6,7,8,9-Octachlorooxanthrene | pg/g | 1 | 8.2 | 34 | 12 | 21 |
| 1,2,3,4,6,7,8,9-Octachlorodibenzofuran | pg/g | 1 | 1.4 | 1.9 | 1.5 | 18 |
| Lower bound TEQ (International) based on PCDD/F* | pg/g | | 0 | 0.4 | 0.1 | 0.2 |
| Medium bound TEQ (International) based on PCDD/F* | pg/g | | 0.7 | 0.9 | 0.6 | 0.9 |
| Upper bound TEQ (International) based on PCDD/F* | pg/g | | 1.4 | 1.3 | 1.1 | 1.6 |
| Medium bound TEQ (WHO) based on DL-PCB* | pg/g | | 0.01 | 0.016 | 0.013 | 0.0098 |
| Lower bound TEQ (WHO) based on DL-PCB* | pg/g | | 0.00092 | 0.0094 | 0.0063 | 0.0022 |
| Upper bound TEQ (WHO) based on DL-PCB* | pg/g | | 0.019 | 0.023 | 0.02 | 0.017 |
| Lower bound TEQ (WHO) based on PCDD/F* | pg/g | | 0 | 0.4 | 0.1 | 0.2 |
| Medium bound TEQ (WHO) based on PCDD/F* | pg/g | | 0.8 | 0.9 | 0.7 | 1 |
| Upper bound TEQ (WHO) based on PCDD/F* | pg/g | | 1.6 | 1.4 | 1.2 | 1.8 |
| | | | | | | |
| 3.3'.4.4'-TeCB (PCB 77) | pg/g | 0.1 | 9.4 | 18 | 7.5 | 23 |
| 3.4.4'.5-TeCB (PCB 81) | pg/g | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 3.3'.4.4'.5-PeCB (PCB 126) | pg/g | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 3.3'.4.4'.5.5'-HxCB (PCB 169) | pg/g | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2.3.3'.4.4'-PeCB (PCB 105) | pg/g | 0.1 | 8.2 | 53 | 40 | 17 |
| 2.3.4.4'.5-PeCB (PCB 114 ) | pg/g | 0.1 | 0.1 | 13 | 9.4 | 0.1 |
| 2.3'.4.4'.5-PeCB (PCB 118) | pg/g | 0.1 | 28 | 220 | 150 | 53 |
| 2'.3.4.4'.5-PeCB (PCB 123) | pg/g | 0.1 | 0.1 | 37 | 20 | 1.4 |
| 2.3.3'.4.4'.5-HxCB (PCB 156) | pg/g | 0.1 | 0.1 | 16 | 13 | 3.6 |
| 2.3.3'.4.4'.5'-HxCB (PCB 157) | pg/g | 0.1 | 0.1 | 2.7 | 0.1 | 0.1 |
| 2.3'.4.4'.5.5'-HxCB (PCB 167) | pg/g | 0.1 | 0.1 | 39 | 19 | 8.1 |
| 2.3.3'.4.4'.5.5'-HpCB (PCB 189) | pg/g | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

| | TEQ FACTOR APPLIED | | | |
|---|---|---|---|---|
| Sample ID | BH12/0.5-0.6 | TP20/0.3-0.4 | TP20/2.4-2.5 | QA04 |
| Sample Date | 11/07/2022 | 13/07/2022 | 13/07/2022 | 13/07/2022 |
| WHO 2005 TEF | | | | |
| - | 0.53542 | 0.44857 | 0.40945 | 0.5894 |
| - | | | | |
| - | | | | |
| - | 1.01946 | 0.9502 | 0.7936 | 1.0893 |
| - | | | | |
| - | | | | |
| - | | | | |
| 0.01 | 0.007 | 0.1 | 0.04 | 0.073 |
| 0.01 | 0.007 | 0.018 | 0.019 | 0.016 |
| 0.01 | 0.007 | 0.005 | 0.005 | 0.007 |
| 0.1 | 0.07 | 0.05 | 0.05 | 0.07 |
| 0.1 | 0.07 | 0.05 | 0.05 | 0.07 |
| 0.1 | 0.07 | 0.14 | 0.05 | 0.07 |
| 0.1 | 0.07 | 0.1 | 0.06 | 0.11 |
| 0.1 | 0.07 | 0.05 | 0.05 | 0.07 |
| 0.1 | 0.07 | 0.05 | 0.05 | 0.07 |
| 1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 1 | 0.7 | 0.5 | 0.5 | 0.7 |
| 0.03 | 0.021 | 0.015 | 0.015 | 0.021 |
| 0.1 | 0.07 | 0.05 | 0.05 | 0.07 |
| 0.3 | 0.21 | 0.15 | 0.15 | 0.21 |
| 0.1 | 0.01 | 0.01 | 0.01 | 0.01 |
| - | | | | |
| 0.0003 | 0.00246 | 0.0102 | 0.0036 | 0.0063 |
| 0.0003 | 0.00042 | 0.00057 | 0.00045 | 0.0054 |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | 0.015074 | 0.026254 | 0.021328 | 0.017832 |
| 0.0001 | 0.00094 | 0.0018 | 0.00075 | 0.0023 |
| 0.0003 | 0.00003 | 0.00003 | 0.00003 | 0.00003 |
| 0.1 | 0.01 | 0.01 | 0.01 | 0.01 |
| 0.03 | 0.003 | 0.003 | 0.003 | 0.003 |
| 0.00003 | 0.000246 | 0.00159 | 0.0012 | 0.00051 |
| 0.00003 | 0.000003 | 0.00039 | 0.000282 | 0.000003 |
| 0.00003 | 0.00084 | 0.0066 | 0.0045 | 0.00159 |
| 0.00003 | 0.000003 | 0.00111 | 0.0006 | 0.000042 |
| 0.00003 | 0.000003 | 0.00048 | 0.00039 | 0.000108 |
| 0.00003 | 0.000003 | 0.000081 | 0.000003 | 0.000003 |
| 0.00003 | 0.000003 | 0.00117 | 0.00057 | 0.000243 |
| 0.00003 | 0.000003 | 0.000003 | 0.000003 | 0.000003 |

# Appendix J. Laboratory Reports

SMEC

**CHAIN OF CUSTODY FORM**

| | | |
|---|---|---|
| **SMEC OFFICE:** SMEC North Sydney<br>**PROJECT:** Cowra DSI | **TURNAROUND REQUIREMENTS :** ☐ Standard - 5 day TAT | **LAB:** Eurofins<br>**ATTENTION:**<br>Emma Beasley |
| **PROJECT NUMBER:** 30013211 | **LAB QUOTE NO.:** 220701SMEN | **DISPATCH TO (ADDRESS & PHONE NO.):**<br>Euorfins Campus<br>179 Magowar Road<br>Girraween NSW 2145 |
| **PROJECT MANAGER:** Steven Drysdale | **CONTACT PH:** 0422 156 256 | |
| **SAMPLED BY:** Pauline Voukidis | | |

| | | | |
|---|---|---|---|
| **DATE SAMPLED:** 11/07/2022 - 14/07/2022 | **RELINQUISHED BY:** DATE/TIME: | **RECEIVED BY:** DATE/TIME: | **RELINQUISHED BY: DATE/TIME:** | **RECEIVED BY:** DATE/TIME: |
| **Email Reports to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM<br>**Email Invoice to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM | PV 15/07/2022 | 12:30 Am 15/07/22 | | |

**Special Laboratory Instructions:**
ESDAT FORMAT RESULTS PLEASE
*Suite B10 = TRH, BTEX, PAH, OCP, OPP, metals (8)

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite B10* | PCB | Lead + Zinc | Suite B4 (TRH, BTEX, PAH) | Suite B7 (TRH, BTEX, PAH, metals) | Asbestos ID | Asbestos NEPM/WA | VHC, VOC | Polychlorinated Dioxins and Furans (PCDD/F) | pH, EC | Foreign Materials | PAH | Moisture content | Suite M8 (8 metals) | BTEX | BTEX and TRH C6-C9 | Coal Tar presence/absence | |
| | BH12/0.0-0.1 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH12/0.3-0.5 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | BH12/0.5-0.6 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | X | | | | | | | | | |
| | BH12/0.9-1.0 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | BH12/1.9-2.0 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | | | | | | | | | | | | |
| | BH12/2.9-3.0 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH12/3.9-4.0 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH12/4.9-5.0 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | SS46/0.00-0.05 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | SS46/0.15-0.20 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | SS45/0.00-0.05 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | X | | | | | | | | | | |
| | SS45/0.15-0.20 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | SS52/0.00-0.05 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS52/0.10-0.15 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | SS53/0.00-0.05 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS53/0.15-0.20 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS54/0.00-0.05 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS54/0.15-0.20 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH29/0.1-0.2 | 11/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | X | | | | | | | | | | |
| | BH29/0.5-0.6 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | | X | | | | | | | | | | |
| | BH29/0.9-1.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH29/1.9-2.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | | | | X | | | | | | | | |
| | BH29/2.0-2.5 ENM | 12/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | BH29/2.9-3.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH29/3.9-4.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH29/4.9-5.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH29/5.9-6.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH29/6.9-7.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | HA39/0.0-0.1 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA39/0.3-0.5 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | BH32/0.1-0.2 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH32/0.4-0.5 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | X | | | | | | | | | | | |
| | BH32/0.6-0.7 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH32/1.0-1.1 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH32/1.9-2.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH32/2.9-3.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH32/3.9-4.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH32/4.9-5.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH32/5.9-6.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH32/6.9-7.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | HA31/0.1-0.2 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | SS55/0.00-0.05 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | X | | X | | | | | | | | | | | | | | |
| | SS55/0.15-0.20 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | X | | X | | | | | | | | | | | | | | |
| | BH30/0.0-0.1 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH30/0.3-0.4 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | X | | | X | | | | | | | | |
| | BH30/0.4-0.6 ENM | 12/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | BH30/0.9-1.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH30/1.9-2.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH30/2.9-3.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH30/3.9-4.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH33/0.0-0.1 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | BH33/0.3-0.4 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH33/0.9-1.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | BH33/1.9-2.0 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |



#907569

**CHAIN OF CUSTODY FORM**

SMEC

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|---|---|---|
| **SMEC OFFICE:** SMEC North Sydney<br>**PROJECT:** Cowra DSI | **TURNAROUND REQUIREMENTS :** ☐ Standard - 5 day TAT | **LAB:** Eurofins<br>**ATTENTION:** Emma Beasley<br>**DISPATCH TO (ADDRESS & PHONE NO.):** Eurofins Campus, 179 Magowar Road, Girraween NSW 2145 |
| **PROJECT NUMBER:** 30013211 | **LAB QUOTE NO.:** 220701SMEN | |
| **PROJECT MANAGER:** Steven Drysdale | **CONTACT PH:** 0422 156 256 | |
| **SAMPLED BY:** Pauline Voukidis | | |

| | | | |
|---|---|---|---|
| **DATE SAMPLED:** 11/07/2022 - 14/07/2022 | **RELINQUISHED BY:** DATE/TIME: | **RECEIVED BY:** DATE/TIME: | **RELINQUISHED BY: DATE/TIME:** | **RECEIVED BY:** DATE/TIME: |
| **Email Reports to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM<br>**Email Invoice to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM | PV 15/07/2022 | | | |

**Special Laboratory Instructions:**
ESDAT FORMAT RESULTS PLEASE
*Suite B10 = TRH, BTEX, PAH, OCP, OPP, metals (8)

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite B10* | PCB | Lead + Zinc | Suite B4 (TRH, BTEX, PAH) | Suite B7 (TRH, BTEX, PAH, metals) | Asbestos ID | Asbestos NEPM/WA | VHC, VOC | Polychlorinated Dioxins and Furans (PCDD/F) | pH, EC | Foreign Materials | PAH | Moisture content | Suite M8 (8 metals) | BTEX | BTEX and TRH C6-C8 | Coal Tar presence/absence | |
| | HA40/0.15-0.25 | 12/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | X | | | | | | | | | | | |
| | TP28/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | TP28/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | |
| | TP28/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP28/0.6-0.7 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP11/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | TP11/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | |
| | TP11/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP11/0.5-0.6 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP11/0.5-0.6 ENM | 13/07/2022 | S | 1 BAG (5KG) | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP20/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | TP20/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | X | | | | | | | | | |
| | TP20/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP20/0.9-1.0 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | | | | | | | | | | | | |
| | TP20/1.9-2.0 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP20/2.4-2.5 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | X | | | | | | | | | |
| | TP13/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | X | | | | | | | | | | | | | | |
| | TP13/0.2-0.4 ENM | 13/07/2022 | S | 1 BAG (5KG) | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP13/0.25-0.35 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | X | | | | | | | | | |
| | TP13/0.4-0.5 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | TP13/0.9-1.0 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP14/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP14/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | X | | | | | | | | | | |
| | TP14/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP14/0.3-0.4 ACM | 13/07/2022 | S | 1 BAG | 1 | | | | | | | X | | | | | | | | | | | | Please also weigh and report total weight of ACM fragments |
| | TP14/0.3-0.4 M | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | | | | | | | X | | | | | |
| | TP14/0.5 ACM | 13/07/2022 | S | 1 BAG | 1 | | | | | | | X | | | | | | | | | | | | |
| | TP14/0.7-0.8 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP19/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | | | | | | | | | | | | |
| | TP19/0.2 ACM | 13/07/2022 | S | 1 BAG | 1 | | | | | | | X | | | | | | | | | | | | |
| | TP19/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | |
| | TP19/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP19/0.3-0.4 ACM | 13/07/2022 | S | 1 BAG | 1 | | | | | | | X | | | | | | | | | | | | Please also weigh and report total weight of ACM fragments |
| | TP19/0.3-0.4 M | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | | | | | | | X | | | | | |
| | TP19/1.0-1.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | | | | | | | | | | | | |
| | TP19/1.2-1.3 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | | | | | | | | X | | | | | | |
| | TP16/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | X | | | | | | | | | | | | |
| | TP16/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | |
| | TP16/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP16/0.7-0.8 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | X | | | | | | | | | | | | | |
| | TP15/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | X | | X | | | | | | | | | | | | |
| | TP15/0.2-0.3 ENM | 13/07/2022 | S | 1 BAG (5KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP15/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | X | | | | | | | | |
| | TP15/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP15/0.5-0.6 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP18/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | X | | X | | | | | | | | | | | | |
| | TP18/0.3-0.4 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | X | | | | | | | | |
| | TP18/0.4-0.5 ENM | 13/07/2022 | S | 1 BAG (5KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP18/0.5-0.6 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | | | | | | | | X | | | | | | |
| | TP17/0.0-0.1 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | |
| | TP17/0.0-0.1 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | X | | | | | | | | |
| | TP17/0.0-0.2 ENM | 13/07/2022 | S | 1 BAG (5KG) | 1 | | | | | | | | | | | | X | | | | | | | |



4/907565

SMEC

**CHAIN OF CUSTODY FORM**

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|---|---|---|
| **SMEC OFFICE:** SMEC North Sydney<br>**PROJECT:** Cowra DSI | **TURNAROUND REQUIREMENTS :** ☐ Standard - 5 day TAT | **LAB:** Eurofins<br>**ATTENTION:**<br>Emma Beasley<br>**DISPATCH TO (ADDRESS & PHONE NO.):**<br>Eurofins Campus<br>179 Magowar Road<br>Girraween NSW 2145 |
| **PROJECT NUMBER:** 30013211 | **LAB QUOTE NO.:** 220701SMEN | |
| **PROJECT MANAGER:** Steven Drysdale | **CONTACT PH:** 0422 156 256 | |
| **SAMPLED BY:** Pauline Voukidis | | |

| | | | |
|---|---|---|---|
| **DATE SAMPLED:** 11/07/2022 - 14/07/2022 | **RELINQUISHED BY:** DATE/TIME:<br>PV 15/07/2022 | **RECEIVED BY:** DATE/TIME: | **RELINQUISHED BY: DATE/TIME:** |
| **Email Reports to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM<br>**Email invoice to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM | | | |

**Special Laboratory Instructions:**
ESDAT FORMAT RESULTS PLEASE
*Suite B10 = TRH, BTEX, PAH, OCP, OPP, metals (8)

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite B10* | PCB | Lead + Zinc | Suite B4 (TRH, BTEX, PAH) | Suite B7 (TRH, BTEX, PAH, metals) | Asbestos ID | Asbestos NEPM/WA | VHC, VOC | Polychlorinated Dioxins and Furans (PCDD/F) | pH, EC | Foreign Materials | PAH | Moisture content | Suite M8 (8 metals) | BTEX | BTEX and TRH C6-C9 | Coal Tar presence/absence | |
| | TP17/0.3-0.4 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP17/0.7-0.8 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP23/0.0-0.1 | 13/07/2022 | S | 1 JAR | 1 | | | | X | | | | | | | | | | | | | | | |
| | TP23/0.0-0.1 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP23/0.20-0.25 | 13/07/2022 | S | 1 JAR | 1 | | | | | | X | | | | | | | | | | | | | |
| | TP23/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | X | | | | | | | | |
| | TP23/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP23/0.3-0.4 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP23/0.6-0.7 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP24/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | X | | | | | | | | | | | | |
| | TP24/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | X | | | | | | | | |
| | TP24/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP24/0.3-0.4 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP24/0.9-1.0 | 13/07/2022 | S | 1 BAG (6KG) | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP27/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | X | | | | | | | | | | | | |
| | TP27/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | | | | | X | | | | | X | | | | | | | | |
| | TP27/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | | | X | | | | | | | | | | | |
| | TP27/0.3-0.4 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP27/1.0-1.1 | 13/07/2022 | S | 1 BAG 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP25/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | TP25/0.1-0.2 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP25/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | | | | | X | | X | | | X | | | | | | | | |
| | TP25/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP25/0.3-0.4 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP25/0.9-1.0 | 13/07/2022 | S | 1 BAG 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP25/0.3-0.4 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | X | | | | X | | | | | | | | |
| | TP25/0.3-0.4 SOIL | 13/07/2022 | S | 1 BAG | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP25/0.3-0.4 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | | | | | | | | | | | | X | | | | | | | |
| | TP25/0.5-0.6 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | TP25/0.8-0.9 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | TP21/0.0-0.1 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | TP21/0.2-0.3 | 13/07/2022 | S | 1 JAR | 1 | | | | X | | | | | | | | | | | | | | | |
| | TP21/0.2-0.3 SOIL | 13/07/2022 | S | 1 BAG | 1 | | | | | | X | | X | | | X | | | | | | | | |
| | TP21/0.2-0.3 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | X | | | | | | | | | | | X | | | | | | | |
| | TP21/0.4-0.5 | 13/07/2022 | S | 1 BAG 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | TP22/0.0-0.1 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | X | | | | | | | | |
| | TP22/0.0-0.1 SOIL | 13/07/2022 | S | 1 BAG | 1 | X | | | | | | | X | | | | | | | | | | | |
| | TP22/0.0-0.1 ENM | 13/07/2022 | S | 1 BAG (6KG) | 1 | X | | | | | | | | | | | X | | | | | | | |
| | TP22/0.3-0.4 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | | | | | | | | | | | | | | | | | | X | |
| | TP22/0.5-0.6 | 13/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | | | | | | | | | | | | | | | | |
| | HA36/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA36/0.4-0.5 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | | | | | | | | | | | | |
| | HA37/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA37/0.4-0.5 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | | | | | | | | | | | | |
| | HA38/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA38/0.4-0.5 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | | | | | | | | | | | | |
| | HA34/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | HA34/0.4-0.5 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | | | | | | | | | | | | |
| | HA35/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | X | | X | | | | | | | | | | |
| | HA35/0.3-0.4 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | | | | | | | | | | | | |
| | SS47/0.00-0.05 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | X | | | | | | | | | | |
| | SS48/0.00-0.05 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS48/0.15-0.20 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | X | X | | | | | X | | | | | | | | | | | |
| | SS50/0.00-0.05 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |



HG07569

SMEC

**CHAIN OF CUSTODY FORM**

| | | |
|---|---|---|
| **SMEC OFFICE:** SMEC North Sydney<br>**PROJECT:** Cowra DSI | **TURNAROUND REQUIREMENTS :** ☐ Standard - 5 day TAT | **LAB:** Eurofins<br>**ATTENTION:** Emma Beasley<br>**DISPATCH TO (ADDRESS & PHONE NO.):** Eurofins Campus, 179 Magowar Road, Girraween NSW 2145 |
| **PROJECT NUMBER:** 30013211 | **LAB QUOTE NO.:** 220701SMEN | |
| **PROJECT MANAGER:** Steven Drysdale | **CONTACT PH:** 0422 156 256 | |
| **SAMPLED BY:** Pauline Voukidis | | |

| | | | |
|---|---|---|---|
| **DATE SAMPLED:** 11/07/2022 - 14/07/2022 | **RELINQUISHED BY:** DATE/TIME: PV 15/07/2022 | **RECEIVED BY:** DATE/TIME: | **RELINQUISHED BY:** DATE/TIME: |
| **Email Reports to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM<br>**Email Invoice to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM | | | |

**Special Laboratory Instructions:**
ESDAT FORMAT RESULTS PLEASE
*Suite B10 = TRH, BTEX, PAH, OCP, OPP, metals (8)

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite B10* | PCB | Lead + Zinc | Suite B4 (TRH, BTEX, PAH) | Suite B7 (TRH, BTEX, PAH, metals) | Asbestos ID | Asbestos NEPM/WA | VHC, VOC | Polychlorinated Dioxins and Furans (PCDD/F) | pH, EC | Foreign Materials | PAH | Moisture content | Suite M8 (8 metals) | BTEX | BTEX and TRH C6-C9 | Coal Tar presence/absence | |
| | SS50/0.15-0.20 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | X | | | X | | | | X | | | | | | | | | | | |
| | SS51/0.00-0.05 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS51/0.05-0.10 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA41/0..0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA41/0.4-0.5 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | | | | | | | | | | | | |
| | SS49/0.00-0.05 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | SS49/0.15-0.20 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA44/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA44/0.2-0.3 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | | | | | | | | | | | | |
| | HA43/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA43/0.3-0.4 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | HA42/0.0-0.1 | 14/07/2022 | S | 1 BAG 1 JAR | 2 | | | | X | | | | X | | | | | | | | | | | |
| | COWRA_EIL | 14/07/2022 | S | 1 JAR | 1 | | | | | | | | | | | | | | | | X | | | |
| | CT01 | 14/07/2022 | S | 1 JAR | 1 | | | | | | | | | | | | | | | | | | X | |
| | CT02 | 14/07/2022 | S | 1 JAR | 1 | | | | | | | | | | | | | | | | | | X | |
| | RINSATE01 | 11/07/2022 | W | 5 BOTTLES | 5 | | X | X | | | | | | | | | | | | | | | | 2 vials, 1 metals, 2 amber |
| | RINSATE02 | 12/07/2022 | W | 5 BOTTLES | 5 | | X | X | | | | | | | | | | | | | | | | 2 vials, 1 metals, 2 amber |
| | RINSATE03 | 14/07/2022 | W | 5 BOTTLES | 5 | | X | X | | | | | | | | | | | | | | | | 2 vials, 1 metals, 2 amber |
| | QA01 | 11/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | |
| | QA01A | 11/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | QA02 | 12/07/2022 | S | 1 JAR | 1 | | | | | | X | | | X | | | | | | | | | | |
| | QA02A | 12/07/2022 | S | 1 JAR | 1 | | | | | | X | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | QA03 | 12/07/2022 | S | 1 JAR | 1 | | | | | X | | | | | | | | | | | | | | |
| | QA03A | 12/07/2022 | S | 1 JAR | 1 | | | | | X | | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | QA04 | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | X | | | | | | | | | |
| | QA04A | 13/07/2022 | S | 1 JAR | 1 | | X | X | | | | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | QA05 | 13/07/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | QA05A | 13/07/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | QA06 | 13/07/2022 | S | 1 JAR | 1 | | | | | | X | | | | | X | | | | | | | | |
| | QA07 | 14/07/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | QA07A | 14/07/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | QA08 | 14/07/2022 | S | 1 JAR | 1 | | | | X | | | | | | | | | | | | | | | |
| | QA08A | 14/07/2022 | S | 1 JAR | 1 | | | | X | | | | | | | | | | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | Soil Trip Spike | 30/06/2022 | S | 1 VIAL | 1 | | | | | | | | | | | | | | | | | X | | |
| | Soil Trip Blank | 30/06/2022 | S | 1 VIAL | 1 | | | | | | | | | | | | | | | | | | X | |
| | | | | TOTAL | 322 | | | | | | | | | | | | | | | | | | | |

**Notes:**



907569

**CHAIN OF CUSTODY FORM**

SMEC

| | | |
|---|---|---|
| **SMEC OFFICE:** SMEC North Sydney<br>**PROJECT:** Cowra DSI | **TURNAROUND REQUIREMENTS :** ☐ Standard - 5 day TAT | **LAB:** ALS<br>**ATTENTION:**<br>Sample Receipt (Jason Dighton)<br>**DISPATCH TO (ADDRESS & PHONE NO.):**<br>277-289 Woodpark Rd, Smithfield NSW 2164<br>PH: 8784 8555 |
| **PROJECT NUMBER:** 30013211 | **LAB QUOTE NO.:** | |
| **PROJECT MANAGER:** Steven Drysdale | **CONTACT PH:** 0422 156 256 | |
| **SAMPLED BY:** Pauline Voukidis | | |

| | | | |
|---|---|---|---|
| **DATE SAMPLED:** 11/07/2022 - 14/07/2022 | **RELINQUISHED BY:** DATE/TIME: | **RECEIVED BY:** DATE/TIME: | **RELINQUISHED BY:** DATE/TIME: | **RECEIVED BY:** DATE/TIME: |
| **Email Reports to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM<br>**Email Invoice to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM | PV 15/07/2022 | | | |

**Special Laboratory Instructions:**
ESDAT FORMAT RESULTS PLEASE
*Suite S16 = TRH, BTEX, PAH, OCP, OPP, PCB, metals (8)

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite S16* | PCB | Lead + Zinc | Suite S7 (TRH, BTEX, PAH) | Suite S26 (TRH, BTEX, PAH, metals) | Asbestos ID | Asbestos NEPM/WA | VHC, VOC | Polychlorinated Dioxins and Furans (PCDD/F) | pH, EC | Foreign Materials | PAH | Moisture content | Suite M8 (8 metals) | BTEX | BTEX and TRH C6-C9 | Coal Tar presence/absence | |
| | QA01A | 11/07/2022 | S | 1 JAR | 1 | | X | | | | | | | | | | | | | | | | | |
| | QA02A | 12/07/2022 | S | 1 JAR | 1 | | | | | | X | | | | | | | | | | | | | |
| | QA03A | 12/07/2022 | S | 1 JAR | 1 | | | | | X | | | | | | | | | | | | | | |
| | QA04A | 13/07/2022 | S | 1 JAR | 1 | | X | | | | | | | | | | | | | | | | | |
| | QA05A | 13/07/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | QA07A | 14/07/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| | QA08A | 14/07/2022 | S | 1 JAR | 1 | | | | X | | | | | | | | | | | | | | | |
| | | | | TOTALS | 7 | | | | | | | | | | | | | | | | | | | |

**Notes:**



907569

Fri 22/07/2022 12:35 PM

Manuel FERNANDEZ <Manuel.Fernandez@smec.com>

**RE: 30013211 - Chain of Custodies**

To Emma Beesley; #AU04_Enviro_Sample_NSW

Cc Steven DRYSDALE; Pauline VOUKIDIS

You replied to this message on 22/07/2022 12:48 PM.
This message was sent with High importance.

**CAUTION:** EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Emma,

As discussed, I would appreciate it if you could make the following amendments to the analysis for the soil analysis under our project 'Cowra DSI 30013211'as follows:

Five samples are currently selected for analysis of Polychlorinated Dioxins and Furans (PCDD/F). Please remove this analysis of these five samples and replace with the following:

BH12/0.5-0.6 - Polychlorinated Dioxins and Furans (PCDD/F) plus Dioxin-like PCB (DL-PCB)
TP20/0.3-0.4 - Polychlorinated Dioxins and Furans (PCDD/F) plus Dioxin-like PCB (DL-PCB)
TP20/2.4-2.5 - Polychlorinated Dioxins and Furans (PCDD/F) plus Dioxin-like PCB (DL-PCB)
QA04 - Polychlorinated Dioxins and Furans (PCDD/F) plus Dioxin-like PCB (DL-PCB)

Please ensure the analysis reports TEQ values also.

Please contact me if you have any questions.

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|---|---|---|---|---|---|
| 6 Monterey Road | 19/8 Lewalan Street | 179 Magowar Road | Unit 1,2 Dacre Street | 1/21 Smallwood Place | 4/52 Industrial Drive |
| Dandenong South | Grovedale | Girraween | Mitchell | Murarrie | Mayfield East NSW 2304 |
| VIC 3175 | VIC 3216 | NSW 2145 | ACT 2911 | QLD 4172 | PO Box 60 Wickham 2293 |
| Tel: +61 3 8564 5000 | Tel: +61 3 8564 5000 | Tel: +61 2 9900 8400 | Tel: +61 2 6113 8091 | Tel: +61 7 3902 4600 | Tel: +61 2 4968 8448 |
| NATA# 1261 Site# 1254 | NATA# 1261 Site# 1254 | NATA# 1261 Site# 18217 | | NATA# 1261 Site# 20794 | NATA# 1261 Site# 25079 |

**Eurofins ARL Pty Ltd**

ABN: 91 05 0159 898

| Perth |
|---|
| 46-48 Banksia Road |
| Welshpool |
| WA 6106 |
| Tel: +61 8 6253 4444 |
| NATA# 2377 Site# 2370 |

**Eurofins Environment Testing NZ Ltd**

NZBN: 9429046024954

| Auckland | Christchurch |
|---|---|
| 35 O'Rorke Road | 43 Detroit Drive |
| Penrose, | Rolleston, |
| Auckland 1061 | Christchurch 7675 |
| Tel: +64 9 526 45 51 | Tel: 0800 856 450 |
| IANZ# 1327 | IANZ# 1290 |

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | SMEC Australia Pty Ltd (SYD) |
| **Contact name:** | STEVEN DRYSDALE |
| **Project name:** | COWRA DSI |
| **Project ID:** | 30013211 |
| **Turnaround time:** | 5 Day |
| **Date/Time received** | Jul 15, 2022 12:30 PM |
| **Eurofins reference** | 907569 |

## Sample Information

| | |
|---|---|
| ✓ | A detailed list of analytes logged into our LIMS, is included in the attached summary table. |
| ✓ | Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 4.3 degrees Celsius. |
| ✓ | All samples have been received as described on the above COC. |
| ✓ | COC has been completed correctly. |
| ✓ | Attempt to chill was evident. |
| ✗ | Appropriately preserved sample containers have been used. |
| ✓ | All samples were received in good condition. |
| ✓ | Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times. |
| ✓ | Appropriate sample containers have been used. |
| ✓ | Sample containers for volatile analysis received with zero headspace. |
| ✓ | Split sample sent to requested external lab. |
| ✗ | Some samples have been subcontracted. |
| N/A | Custody Seals intact (if used). |

## Notes

Foreign material bag not recieved for TP24/0.3-0.4 ENM, its analysis has been cancelled. Additional foreign material bags TP33/0.4-0.6 ENM and TP19/0.4-0.5 ENM received.

Jars not received for samples TP17/0.0-0.1 SOIL, TP21/0.2-0.3 SOIL, TP14/0.3-0.4 M and TP19/0.3-0.4 M, their analysis have been placed on hold. Please advise if you wish to proceed with ASBWA analysis of if you would like to do other analysis. An extra sample EXTRA TP13/0.5-0.6 JAR was

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Emma Beesley on phone : or by email: EmmaBeesley@eurofins.com**

Results will be delivered electronically via email to STEVEN DRYSDALE - STEVEN.DRYSDALE@SMEC.COM.

*Note: A copy of these results will also be delivered to the general SMEC Australia Pty Ltd (SYD) email address.*

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| **External Laboratory** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Jl0042736 | Jul 11, 2022 | | Soil | S22-Jl0042657 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 2 | BH12/0.3-0.5 | Jul 11, 2022 | | Soil | S22-Jl0042658 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 3 | BH12/0.5-0.6 | Jul 11, 2022 | | Soil | S22-Jl0042659 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 4 | BH12/0.9-1.0 | Jul 11, 2022 | | Soil | S22-Jl0042660 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 5 | BH12/1.9-2.0 | Jul 11, 2022 | | Soil | S22-Jl0042661 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 6 | SS46/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042662 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 7 | SS45/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042663 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 8 | SS45/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042664 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 9 | SS52/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042665 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 10 | SS53/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042666 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 11 | SS53/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042667 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 12 | SS54/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042668 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 13 | BH29/0.1-0.2 | Jul 11, 2022 | | Soil | S22-Jl0042669 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 14 | BH29/0.5-0.6 | Jul 12, 2022 | | Soil | S22-Jl0042670 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 15 | BH29/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042671 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 16 | BH29/2.0-2.5 ENM | Jul 12, 2022 | | Soil | S22-Jl0042672 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 17 | HA39/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042673 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 18 | HA39/0.3-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042674 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 19 | BH32/0.4-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042675 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 20 | BH32/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042676 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 21 | BH32/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042677 | | | | | | | | | | | | | | | | | X | | | X | | | | |

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| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 22 | HA31/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042678 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 23 | SS55/0.00-0.05 | Jul 12, 2022 | | Soil | S22-Jl0042679 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 24 | SS55/0.15-0.20 | Jul 12, 2022 | | Soil | S22-Jl0042680 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 25 | BH30/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042681 | | X | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 26 | BH30/0.4-0.6 ENM | Jul 12, 2022 | | Soil | S22-Jl0042682 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 27 | BH30/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042683 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 28 | BH30/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042684 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 29 | BH33/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042685 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 30 | BH33/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042686 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 31 | HA40/0.15-0.25 | Jul 12, 2022 | | Soil | S22-Jl0042687 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 32 | TP28/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042688 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 33 | TP28/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042689 | | | | | | | | | | | | X | | | | | X | X | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 34 | TP28/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042690 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 35 | TP11/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042691 | X | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 36 | TP11/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042692 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 37 | TP11/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042693 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 38 | TP20/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042694 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 39 | TP20/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042695 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 40 | TP20/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042696 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 41 | TP20/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042697 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 42 | TP20/2.4-2.5 | Jul 13, 2022 | | Soil | S22-Jl0042698 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 43 | TP13/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042699 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 44 | TP13/0.25-0.35 | Jul 13, 2022 | | Soil | S22-Jl0042700 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 45 | TP13/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042701 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 46 | TP14/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042702 | | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 47 | TP14/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042703 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 48 | TP14/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042704 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 49 | TP14/0.5 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042705 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 50 | TP19/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042706 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 51 | TP19/0.2 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042707 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 52 | TP19/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042708 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 53 | TP19/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042709 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 54 | TP19/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042710 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 55 | TP19/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042711 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 56 | TP19/1.2-1.3 | Jul 13, 2022 | | Soil | S22-Jl0042712 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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**Company Name:** SMEC Australia Pty Ltd (SYD)
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**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
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**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

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**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 57 | TP16/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042713 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 58 | TP16/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042714 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 59 | TP16/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042715 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 60 | TP16/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042716 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 61 | TP15/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042717 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 62 | TP15/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042718 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 63 | TP15/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042719 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 64 | TP15/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042720 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 65 | TP18/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042721 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 66 | TP18/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042722 | | X | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 67 | TP18/0.4-0.5 ENM | Jul 13, 2022 | | Soil | S22-Jl0042723 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 68 | TP18/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042724 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 69 | TP17/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042725 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 70 | TP17/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042726 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | TP17/0.0-0.2 ENM | Jul 13, 2022 | | Soil | S22-Jl0042727 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 72 | TP23/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042728 | | | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 73 | TP23/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042729 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | TP23/0.20-0.25 | Jul 13, 2022 | | Soil | S22-Jl0042730 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 75 | TP23/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042731 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 76 | TP23/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042732 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | TP23/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042733 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 78 | TP24/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042734 | X | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 79 | TP24/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042735 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 80 | TP24/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042736 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 81 | TP24/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042737 | | | | X | | | | | | | | | | | | | | | | | | | | |
| 82 | TP27/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042738 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 83 | TP27/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042739 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 84 | TP27/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042740 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 85 | TP27/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042741 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 86 | TP26/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042742 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 87 | TP26/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042743 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 88 | TP26/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042744 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 89 | TP25/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042745 | X | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 90 | TP25/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042746 | | | | | | | | | | | | | | X | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 91 | TP25/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042747 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 92 | TP21/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042748 | | X | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 93 | TP21/0.2-0.3 | Jul 13, 2022 | | Soil | S22-Jl0042749 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 94 | TP21/0.2-0.3 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042750 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 95 | TP21/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042751 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 96 | TP22/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042752 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 97 | TP22/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042753 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 98 | TP22/0.0-0.1 ENM | Jul 13, 2022 | | Soil | S22-Jl0042754 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 99 | TP22/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042755 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 100 | HA36/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042756 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 101 | HA36/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042757 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 102 | HA37/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042758 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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**Christchurch**
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Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 103 | HA37/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042759 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 104 | HA38/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042760 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 105 | HA38/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042761 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 106 | HA34/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042762 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 107 | HA34/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042763 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 108 | HA35/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042764 | X | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 109 | HA35/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042765 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 110 | SS47/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042766 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 111 | SS48/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042767 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 112 | SS48/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042768 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 113 | SS50/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042769 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 114 | SS51/0.00- | Jul 14, 2022 | | Soil | S22-Jl0042770 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | SS51/0.05-0.10 | Jul 14, 2022 | | Soil | S22-Jl0042771 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 116 | HA41/0..0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042772 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 117 | HA41/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042773 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 118 | SS49/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042774 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 119 | SS49/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042775 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 120 | HA44/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042776 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 121 | HA44/0.2-0.3 | Jul 14, 2022 | | Soil | S22-Jl0042777 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 122 | HA43/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042778 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 123 | HA43/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042779 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 124 | HA42/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042780 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 125 | COWRA_EIL | Jul 14, 2022 | | Soil | S22-Jl0042781 | | | | | | | | | | | | | X | | | | X | | | | | | | |
| 126 | CT01 | Jul 14, 2022 | | Soil | S22-Jl0042782 | | | | | X | | | | | | | | | | | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 127 | CT02 | Jul 14, 2022 | | Soil | S22-Jl0042783 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 128 | RINSATE01 | Jul 11, 2022 | | Water | S22-Jl0042784 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 129 | RINSATE02 | Jul 12, 2022 | | Water | S22-Jl0042785 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 130 | RINSATE03 | Jul 14, 2022 | | Water | S22-Jl0042786 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 131 | QA01 | Jul 11, 2022 | | Soil | S22-Jl0042787 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 132 | QA02 | Jul 12, 2022 | | Soil | S22-Jl0042788 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 133 | QA03 | Jul 12, 2022 | | Soil | S22-Jl0042789 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 134 | QA04 | Jul 13, 2022 | | Soil | S22-Jl0042790 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 135 | QA06 | Jul 13, 2022 | | Soil | S22-Jl0042791 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 136 | QA08 | Jul 14, 2022 | | Soil | S22-Jl0042792 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 137 | SOIL TRIP SPIKE | Jun 30, 2022 | | Soil | S22-Jl0042793 | | | | | | | | | | | | | | | | | | | | | | X | | |
| 138 | SOIL TRIP BLANK | Jun 30, 2022 | | Soil | S22-Jl0042794 | | | | | | | | | | | | | | | | | | | | | X | | | |
| 139 | TP14/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042795 | | | | | | | X | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 140 | TP19/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042796 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 141 | BH12/2.9-3.0 | Jul 11, 2022 | | Soil | S22-Jl0042797 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 142 | BH12/3.9-4.0 | Jul 11, 2022 | | Soil | S22-Jl0042798 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 143 | BH12/4.9-5.0 | Jul 11, 2022 | | Soil | S22-Jl0042799 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 144 | SS46/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042800 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 145 | SS52/0.10-0.15 | Jul 11, 2022 | | Soil | S22-Jl0042801 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 146 | SS54/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042802 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 147 | BH29/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042803 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 148 | BH29/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042804 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 149 | BH29/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042805 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 150 | BH29/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042806 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 151 | BH29/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042807 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 152 | BH29/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042808 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 153 | BH32/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042809 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 154 | BH32/0.6-0.7 | Jul 12, 2022 | | Soil | S22-Jl0042810 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 155 | BH32/1.0-1.1 | Jul 12, 2022 | | Soil | S22-Jl0042811 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 156 | BH32/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042812 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 157 | BH32/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042813 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 158 | BH32/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042814 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 159 | BH32/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042815 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 160 | BH30/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042816 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 161 | BH30/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042817 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 162 | BH30/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042818 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 163 | BH33/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042819 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 164 | BH33/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042820 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 165 | TP28/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042821 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 166 | TP11/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042822 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 167 | TP11/0.5-0.6 ENM | Jul 13, 2022 | | Soil | S22-Jl0042823 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 168 | TP20/1.9-2.0 | Jul 13, 2022 | | Soil | S22-Jl0042824 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 169 | TP13/0.2-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042825 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 170 | TP13/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042826 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 171 | TP14/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042827 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 172 | TP14/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042828 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 173 | TP15/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042829 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 174 | TP17/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042830 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 175 | TP17/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042831 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 176 | TP23/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042832 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 177 | TP24/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042833 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 178 | TP27/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042834 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 179 | TP26/0.1-0.2 | Jul 13, 2022 | | Soil | S22-Jl0042835 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
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**Phone:** 02 9925 5555
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**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 180 | TP26/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042836 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 181 | TP25/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042837 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 182 | TP25/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042838 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 183 | TP25/0.8-0.9 | Jul 13, 2022 | | Soil | S22-Jl0042839 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 184 | TP21/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042840 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 185 | TP22/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042841 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 186 | SS50/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042842 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 187 | QA05 | Jul 13, 2022 | | Soil | S22-Jl0042843 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 188 | QA07 | Jul 14, 2022 | | Soil | S22-Jl0042844 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 189 | EXTRA TP13/0.5-0.6 JAR | Jul 11, 2022 | | Soil | S22-Jl0043103 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 190 | SOIL LAB SPIKE | Jun 30, 2022 | | Soil | S22-Jl0043162 | | | | | | | | | | | | | | | | | | | | | | X | | |

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**Received:** Jul 15, 2022 12:30 PM
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**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 191 | EXTRA BH33/0.4-0.6 ENM | Jun 30, 2022 | | Soil | S22-Jl0044245 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 192 | EXTRA TP19/0.4-0.5 ENM | Jun 30, 2022 | | Soil | S22-Jl0044246 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 193 | DUPLICATE TP27/0.0-0.1 BAG | Jul 13, 2022 | | Soil | S22-Jl0044247 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 194 | EXTRA SS46/0.00-0.15 BG (ASBPA QUANT.) | Jul 11, 2022 | | Soil | S22-Jl0044248 | | | | | | | X | | | | | | | | | | | | | | | | | |
| **Test Counts** | | | | | | 8 | 56 | 4 | 1 | 3 | 12 | 54 | 35 | 12 | 35 | 2 | 41 | 1 | 11 | 7 | 7 | 103 | 39 | 14 | 14 | 1 | 2 | 4 | 4 |

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SMEC Australia Pty Ltd**
**Level 6, 76 Berry Street**
**North Sydney**
**NSW 2060**

| | |
|---|---|
| **Attention:** | STEVEN DRYSDALE |
| **Report** | 907569-AID |
| **Project Name** | COWRA DSI |
| **Project ID** | 30013211 |
| **Received Date** | Jul 15, 2022 |
| **Date Reported** | Jul 29, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** COWRA DSI
**Project ID** 30013211
**Date Sampled** Jul 11, 2022 to Jul 14, 2022
**Report** 907569-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| BH12/0.3-0.5 | 22-Jl0042658 | Jul 11, 2022 | Approximate Sample 294g<br>Sample consisted of: Red-brown fine-grained clayey soil, coal, glass and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH12/0.5-0.6 | 22-Jl0042659 | Jul 11, 2022 | Approximate Sample 264g<br>Sample consisted of: Light grey fine-grained soil, coal, plaster and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH12/0.9-1.0 | 22-Jl0042660 | Jul 11, 2022 | Approximate Sample 336g<br>Sample consisted of: Brown coarse-grained soil, coal, ceramic material and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS45/0.00-0.05 | 22-Jl0042663 | Jul 11, 2022 | Approximate Sample 281g<br>Sample consisted of: Brown coarse-grained soil, ceramic material, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS45/0.15-0.20 | 22-Jl0042664 | Jul 11, 2022 | Approximate Sample 288g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS52/0.00-0.05 | 22-Jl0042665 | Jul 11, 2022 | Approximate Sample 961g<br>Sample consisted of: Brown coarse-grained soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS53/0.00-0.05 | 22-Jl0042666 | Jul 11, 2022 | Approximate Sample 957g<br>Sample consisted of: Brown coarse-grained soil, bitumen, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS53/0.15-0.20 | 22-Jl0042667 | Jul 11, 2022 | Approximate Sample 530g<br>Sample consisted of: Grey coarse-grained soil, coal, plaster, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| SS54/0.00-0.05 | 22-Jl0042668 | Jul 11, 2022 | Approximate Sample 871g<br>Sample consisted of: Brown coarse-grained sandy soil, plastic, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH29/0.1-0.2 | 22-Jl0042669 | Jul 11, 2022 | Approximate Sample 734g<br>Sample consisted of: Brown coarse-grained sandy soil, bitumen, brick, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA39/0.0-0.1 | 22-Jl0042673 | Jul 12, 2022 | Approximate Sample 476g<br>Sample consisted of: Brown coarse-grained soil, bitumen, cement, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA39/0.3-0.5 | 22-Jl0042674 | Jul 12, 2022 | Approximate Sample 567g<br>Sample consisted of: Brown coarse-grained soil, coal, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH32/0.4-0.5 | 22-Jl0042675 | Jul 12, 2022 | Approximate Sample 643g<br>Sample consisted of: Red-brown fine-grained clayey soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH30/0.3-0.4 | 22-Jl0042681 | Jul 12, 2022 | Approximate Sample 519g<br>Sample consisted of: Red-brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA40/0.15-0.25 | 22-Jl0042687 | Jul 12, 2022 | Approximate Sample 342g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP28/0.0-0.1 | 22-Jl0042688 | Jul 13, 2022 | Approximate Sample 672g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP28/0.3-0.4 SOIL | 22-Jl0042690 | Jul 13, 2022 | Approximate Sample 852g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP11/0.0-0.1 | 22-Jl0042691 | Jul 13, 2022 | Approximate Sample 172g<br>Sample consisted of: Brown coarse-grained soil, plaster, rocks and debris | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP11/0.3-0.4 SOIL | 22-Jl0042693 | Jul 13, 2022 | Approximate Sample 394g<br>Sample consisted of: Grey fine-grained soil, glass, plaster, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP20/0.0-0.1 | 22-Jl0042694 | Jul 13, 2022 | Approximate Sample 609g<br>Sample consisted of: Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP20/0.3-0.4 SOIL | 22-Jl0042696 | Jul 13, 2022 | Approximate Sample 514g<br>Sample consisted of: Grey fine-grained soil, coal, glass, plaster and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| TP20/2.4-2.5 | 22-Jl0042698 | Jul 13, 2022 | Approximate Sample 552g<br>Sample consisted of: Grey fine-grained soil, coal, glass, corroded metal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP13/0.25-0.35 | 22-Jl0042700 | Jul 13, 2022 | Approximate Sample 558g<br>Sample consisted of: Grey coarse-grained soil, coal, glass, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP13/0.4-0.5 | 22-Jl0042701 | Jul 13, 2022 | Approximate Sample 924g<br>Sample consisted of: Brown coarse-grained sandy soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP14/0.3-0.4 SOIL | 22-Jl0042703 | Jul 13, 2022 | Approximate Sample 782g<br>Sample consisted of: Brown coarse-grained soil, bitumen, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP14/0.3-0.4 ACM | 22-Jl0042704 | Jul 13, 2022 | Approximate Sample 174g / 110x50x10mm<br>Sample consisted of: Grey cement material and coating | No asbestos detected.<br>No trace asbestos detected. |
| TP14/0.5 ACM | 22-Jl0042705 | Jul 13, 2022 | Approximate Sample 44g / 75x50x5mm<br>Sample consisted of: Grey cement material | No asbestos detected.<br>No trace asbestos detected. |
| TP19/0.2 ACM | 22-Jl0042707 | Jul 13, 2022 | Approximate Sample 29g / 45x40x5mm<br>Sample consisted of: Grey cement material and coating | No asbestos detected.<br>No trace asbestos detected. |
| TP19/0.3-0.4 SOIL | 22-Jl0042709 | Jul 13, 2022 | Approximate Sample 709g<br>Sample consisted of: Brown fine-grained clayey soil, brick, cement, plaster and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP19/0.3-0.4 ACM | 22-Jl0042710 | Jul 13, 2022 | Approximate Sample 139g / 120x45x8mm<br>Sample consisted of: Grey cement and coating | No asbestos detected.<br>No trace asbestos detected. |
| TP16/0.0-0.1 | 22-Jl0042713 | Jul 13, 2022 | Approximate Sample 922g<br>Sample consisted of: Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP16/0.3-0.4 SOIL | 22-Jl0042715 | Jul 13, 2022 | Approximate Sample 779g<br>Sample consisted of: Brown coarse-grained soil, coal, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP15/0.0-0.1 | 22-Jl0042717 | Jul 13, 2022 | Approximate Sample 804g<br>Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP15/0.3-0.4 SOIL | 22-Jl0042720 | Jul 13, 2022 | Approximate Sample 769g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| TP18/0.0-0.1 | 22-Jl0042721 | Jul 13, 2022 | Approximate Sample 818g<br>Sample consisted of: Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP18/0.3-0.4 | 22-Jl0042722 | Jul 13, 2022 | Approximate Sample 695g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP17/0.0-0.1 SOIL | 22-Jl0042726 | Jul 13, 2022 | Approximate Sample 580g<br>Sample consisted of: Brown fine-grained sandy soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP23/0.0-0.1 SOIL | 22-Jl0042729 | Jul 13, 2022 | Approximate Sample 801g<br>Sample consisted of: Brown coarse-grained soil, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP23/0.3-0.4 SOIL | 22-Jl0042732 | Jul 13, 2022 | Approximate Sample 853g<br>Sample consisted of: Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP24/0.0-0.1 | 22-Jl0042734 | Jul 13, 2022 | Approximate Sample 525g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP24/0.3-0.4 SOIL | 22-Jl0042736 | Jul 13, 2022 | Approximate Sample 726g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP27/0.0-0.1 | 22-Jl0042738 | Jul 13, 2022 | Approximate Sample 620g<br>Sample consisted of: Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP27/0.3-0.4 SOIL | 22-Jl0042740 | Jul 13, 2022 | Approximate Sample 723g<br>Sample consisted of: Brown coarse-grained soil, brick, coal, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP26/0.0-0.1 | 22-Jl0042742 | Jul 13, 2022 | Approximate Sample 274g<br>Sample consisted of: Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP25/0.3-0.4 | 22-Jl0042745 | Jul 13, 2022 | Approximate Sample 59g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP25/0.5-0.6 | 22-Jl0042747 | Jul 13, 2022 | Approximate Sample 425g<br>Sample consisted of: Grey fine-grained soil, coal, plaster, glass, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP21/0.0-0.1 | 22-Jl0042748 | Jul 13, 2022 | Approximate Sample 972g<br>Sample consisted of: Brown coarse-grained soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| TP21/0.2-0.3 SOIL | 22-Jl0042750 | Jul 13, 2022 | Approximate Sample 1013g<br>Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| TP22/0.0-0.1 SOIL | 22-Jl0042753 | Jul 13, 2022 | Approximate Sample 805g<br>Sample consisted of: Brown coarse-grained soil, brick, plaster and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA36/0.0-0.1 | 22-Jl0042756 | Jul 14, 2022 | Approximate Sample 351g<br>Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA37/0.0-0.1 | 22-Jl0042758 | Jul 14, 2022 | Approximate Sample 529g<br>Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA38/0.0-0.1 | 22-Jl0042760 | Jul 14, 2022 | Approximate Sample 556g<br>Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA34/0.0-0.1 | 22-Jl0042762 | Jul 14, 2022 | Approximate Sample 384g<br>Sample consisted of: Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA35/0.0-0.1 | 22-Jl0042764 | Jul 14, 2022 | Approximate Sample 575g<br>Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS47/0.00-0.05 | 22-Jl0042766 | Jul 14, 2022 | Approximate Sample 367g<br>Sample consisted of: Brown fine-grained soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS48/0.00-0.05 | 22-Jl0042767 | Jul 14, 2022 | Approximate Sample 388g<br>Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS48/0.15-0.20 | 22-Jl0042768 | Jul 14, 2022 | Approximate Sample 396g<br>Sample consisted of: Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS50/0.00-0.05 | 22-Jl0042769 | Jul 14, 2022 | Approximate Sample 548g<br>Sample consisted of: Brown fine-grained clayey soil, corroded metal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS51/0.00-0.05 | 22-Jl0042770 | Jul 14, 2022 | Approximate Sample 750g<br>Sample consisted of: Grey coarse-grained soil, glass, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS51/0.05-0.10 | 22-Jl0042771 | Jul 14, 2022 | Approximate Sample 660g<br>Sample consisted of: Grey coarse-grained soil, glass, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| HA41/0..0-0.1 | 22-Jl0042772 | Jul 14, 2022 | Approximate Sample 596g<br>Sample consisted of: Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS49/0.00-0.05 | 22-Jl0042774 | Jul 14, 2022 | Approximate Sample 702g<br>Sample consisted of: Brown coarse-grained soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| SS49/0.15-0.20 | 22-Jl0042775 | Jul 14, 2022 | Approximate Sample 676g<br>Sample consisted of: Brown coarse-grained soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA44/0.0-0.1 | 22-Jl0042776 | Jul 14, 2022 | Approximate Sample 451g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA43/0.0-0.1 | 22-Jl0042778 | Jul 14, 2022 | Approximate Sample 465g<br>Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA43/0.3-0.4 | 22-Jl0042779 | Jul 14, 2022 | Approximate Sample 600g<br>Sample consisted of: Brown coarse-grained soil, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| HA42/0.0-0.1 | 22-Jl0042780 | Jul 14, 2022 | Approximate Sample 551g<br>Sample consisted of: Brown coarse-grained soil, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Sydney | Jul 25, 2022 | Indefinite |
| Asbestos - LTM-ASB-8020 | Sydney | Jul 25, 2022 | Indefinite |
| Asbestos - LTM-ASB-8020 | Sydney | Jul 25, 2022 | Indefinite |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| **External Laboratory** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BH12/0.0-0.1 | Jul 11, 2022 | | Soil | S22-Jl0042657 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 2 | BH12/0.3-0.5 | Jul 11, 2022 | | Soil | S22-Jl0042658 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 3 | BH12/0.5-0.6 | Jul 11, 2022 | | Soil | S22-Jl0042659 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 4 | BH12/0.9-1.0 | Jul 11, 2022 | | Soil | S22-Jl0042660 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 5 | BH12/1.9-2.0 | Jul 11, 2022 | | Soil | S22-Jl0042661 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 6 | SS46/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042662 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 7 | SS45/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042663 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 8 | SS45/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042664 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 9 | SS52/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042665 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 10 | SS53/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042666 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 11 | SS53/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042667 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 12 | SS54/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042668 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 13 | BH29/0.1-0.2 | Jul 11, 2022 | | Soil | S22-Jl0042669 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 14 | BH29/0.5-0.6 | Jul 12, 2022 | | Soil | S22-Jl0042670 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 15 | BH29/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042671 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 16 | BH29/2.0-2.5 ENM | Jul 12, 2022 | | Soil | S22-Jl0042672 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 17 | HA39/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042673 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 18 | HA39/0.3-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042674 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 19 | BH32/0.4-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042675 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 20 | BH32/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042676 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 21 | BH32/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042677 | | | | | | | | | | | | | | | | | X | | | X | | | | |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 22 | HA31/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042678 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 23 | SS55/0.00-0.05 | Jul 12, 2022 | | Soil | S22-Jl0042679 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 24 | SS55/0.15-0.20 | Jul 12, 2022 | | Soil | S22-Jl0042680 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 25 | BH30/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042681 | | X | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 26 | BH30/0.4-0.6 ENM | Jul 12, 2022 | | Soil | S22-Jl0042682 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 27 | BH30/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042683 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 28 | BH30/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042684 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 29 | BH33/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042685 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 30 | BH33/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042686 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 31 | HA40/0.15-0.25 | Jul 12, 2022 | | Soil | S22-Jl0042687 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 32 | TP28/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042688 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 33 | TP28/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042689 | | | | | | | | | | | | X | | | | | X | X | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 34 | TP28/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042690 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 35 | TP11/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042691 | X | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 36 | TP11/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042692 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 37 | TP11/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042693 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 38 | TP20/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042694 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 39 | TP20/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042695 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 40 | TP20/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042696 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 41 | TP20/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042697 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 42 | TP20/2.4-2.5 | Jul 13, 2022 | | Soil | S22-Jl0042698 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 43 | TP13/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042699 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 44 | TP13/0.25-0.35 | Jul 13, 2022 | | Soil | S22-Jl0042700 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 45 | TP13/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042701 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 46 | TP14/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042702 | | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 47 | TP14/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042703 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 48 | TP14/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042704 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 49 | TP14/0.5 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042705 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 50 | TP19/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042706 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 51 | TP19/0.2 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042707 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 52 | TP19/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042708 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 53 | TP19/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042709 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 54 | TP19/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042710 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 55 | TP19/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042711 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 56 | TP19/1.2-1.3 | Jul 13, 2022 | | Soil | S22-Jl0042712 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 57 | TP16/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042713 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 58 | TP16/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042714 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 59 | TP16/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042715 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 60 | TP16/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042716 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 61 | TP15/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042717 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 62 | TP15/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042718 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 63 | TP15/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042719 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 64 | TP15/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042720 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 65 | TP18/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042721 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 66 | TP18/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042722 | | X | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 67 | TP18/0.4-0.5 ENM | Jul 13, 2022 | | Soil | S22-Jl0042723 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 68 | TP18/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042724 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 69 | TP17/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042725 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 70 | TP17/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042726 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | TP17/0.0-0.2 ENM | Jul 13, 2022 | | Soil | S22-Jl0042727 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 72 | TP23/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042728 | | | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 73 | TP23/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042729 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | TP23/0.20-0.25 | Jul 13, 2022 | | Soil | S22-Jl0042730 | | | | | | | | | | | | | | | | | X | | X | | | | | | |
| 75 | TP23/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042731 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |
| 76 | TP23/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042732 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | TP23/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042733 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 78 | TP24/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042734 | X | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 79 | TP24/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042735 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |

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**Company Name:** SMEC Australia Pty Ltd (SYD)
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**Project ID:** 30013211

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**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
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**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 80 | TP24/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042736 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 81 | TP24/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042737 | | | | X | | | | | | | | | | | | | | | | | | | | |
| 82 | TP27/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042738 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 83 | TP27/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042739 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 84 | TP27/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042740 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 85 | TP27/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042741 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 86 | TP26/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042742 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 87 | TP26/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042743 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 88 | TP26/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042744 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 89 | TP25/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042745 | X | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 90 | TP25/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042746 | | | | | | | | | | | | | | X | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 91 | TP25/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042747 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 92 | TP21/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042748 | | X | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 93 | TP21/0.2-0.3 | Jul 13, 2022 | | Soil | S22-Jl0042749 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 94 | TP21/0.2-0.3 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042750 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 95 | TP21/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042751 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 96 | TP22/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042752 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 97 | TP22/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042753 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 98 | TP22/0.0-0.1 ENM | Jul 13, 2022 | | Soil | S22-Jl0042754 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 99 | TP22/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042755 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 100 | HA36/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042756 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 101 | HA36/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042757 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 102 | HA37/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042758 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 103 | HA37/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042759 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 104 | HA38/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042760 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 105 | HA38/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042761 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 106 | HA34/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042762 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 107 | HA34/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042763 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 108 | HA35/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042764 | X | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 109 | HA35/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042765 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 110 | SS47/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042766 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 111 | SS48/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042767 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 112 | SS48/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042768 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 113 | SS50/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042769 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 114 | SS51/0.00- | Jul 14, 2022 | | Soil | S22-Jl0042770 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | SS51/0.05-0.10 | Jul 14, 2022 | | Soil | S22-Jl0042771 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 116 | HA41/0..0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042772 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 117 | HA41/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042773 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 118 | SS49/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042774 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 119 | SS49/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042775 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 120 | HA44/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042776 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 121 | HA44/0.2-0.3 | Jul 14, 2022 | | Soil | S22-Jl0042777 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 122 | HA43/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042778 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 123 | HA43/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042779 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 124 | HA42/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042780 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 125 | COWRA_EIL | Jul 14, 2022 | | Soil | S22-Jl0042781 | | | | | | | | | | | | | X | | | | X | | | | | | | |
| 126 | CT01 | Jul 14, 2022 | | Soil | S22-Jl0042782 | | | | | X | | | | | | | | | | | | X | | | | | | | |

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Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
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NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 127 | CT02 | Jul 14, 2022 | | Soil | S22-Jl0042783 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 128 | RINSATE01 | Jul 11, 2022 | | Water | S22-Jl0042784 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 129 | RINSATE02 | Jul 12, 2022 | | Water | S22-Jl0042785 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 130 | RINSATE03 | Jul 14, 2022 | | Water | S22-Jl0042786 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 131 | QA01 | Jul 11, 2022 | | Soil | S22-Jl0042787 | | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 132 | QA02 | Jul 12, 2022 | | Soil | S22-Jl0042788 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 133 | QA03 | Jul 12, 2022 | | Soil | S22-Jl0042789 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 134 | QA04 | Jul 13, 2022 | | Soil | S22-Jl0042790 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 135 | QA06 | Jul 13, 2022 | | Soil | S22-Jl0042791 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 136 | QA08 | Jul 14, 2022 | | Soil | S22-Jl0042792 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 137 | SOIL TRIP SPIKE | Jun 30, 2022 | | Soil | S22-Jl0042793 | | | | | | | | | | | | | | | | | | | | | | X | | |
| 138 | SOIL TRIP BLANK | Jun 30, 2022 | | Soil | S22-Jl0042794 | | | | | | | | | | | | | | | | | | | | | X | | | |
| 139 | TP14/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042795 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 140 | TP19/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042796 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 141 | BH12/2.9-3.0 | Jul 11, 2022 | | Soil | S22-Jl0042797 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 142 | BH12/3.9-4.0 | Jul 11, 2022 | | Soil | S22-Jl0042798 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 143 | BH12/4.9-5.0 | Jul 11, 2022 | | Soil | S22-Jl0042799 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 144 | SS46/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042800 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 145 | SS52/0.10-0.15 | Jul 11, 2022 | | Soil | S22-Jl0042801 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 146 | SS54/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042802 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 147 | BH29/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042803 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 148 | BH29/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042804 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 149 | BH29/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042805 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 150 | BH29/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042806 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 151 | BH29/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042807 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 152 | BH29/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042808 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 153 | BH32/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042809 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 154 | BH32/0.6-0.7 | Jul 12, 2022 | | Soil | S22-Jl0042810 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 155 | BH32/1.0-1.1 | Jul 12, 2022 | | Soil | S22-Jl0042811 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 156 | BH32/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042812 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 157 | BH32/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042813 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 158 | BH32/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042814 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 159 | BH32/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042815 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 160 | BH30/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042816 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 161 | BH30/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042817 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 162 | BH30/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042818 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 163 | BH33/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042819 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 164 | BH33/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042820 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 165 | TP28/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042821 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 166 | TP11/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042822 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 167 | TP11/0.5-0.6 ENM | Jul 13, 2022 | | Soil | S22-Jl0042823 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 168 | TP20/1.9-2.0 | Jul 13, 2022 | | Soil | S22-Jl0042824 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 169 | TP13/0.2-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042825 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 170 | TP13/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042826 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 171 | TP14/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042827 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 172 | TP14/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042828 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 173 | TP15/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042829 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 174 | TP17/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042830 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 175 | TP17/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042831 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 176 | TP23/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042832 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 177 | TP24/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042833 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 178 | TP27/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042834 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 179 | TP26/0.1-0.2 | Jul 13, 2022 | | Soil | S22-Jl0042835 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 180 | TP26/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042836 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 181 | TP25/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042837 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 182 | TP25/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042838 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 183 | TP25/0.8-0.9 | Jul 13, 2022 | | Soil | S22-Jl0042839 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 184 | TP21/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042840 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 185 | TP22/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042841 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 186 | SS50/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042842 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 187 | QA05 | Jul 13, 2022 | | Soil | S22-Jl0042843 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 188 | QA07 | Jul 14, 2022 | | Soil | S22-Jl0042844 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 189 | EXTRA TP13/0.5-0.6 JAR | Jul 11, 2022 | | Soil | S22-Jl0043103 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 190 | EXTRA BH33/0.4-0.6 | Jun 30, 2022 | | Soil | S22-Jl0044245 | | | | | | | X | | | | | | | | | | | | | | | | | |

eurofins

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**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | BH33/0.4-0.6 ENM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | EXTRA TP19/0.4-0.5 ENM | Jun 30, 2022 | | Soil | S22-Jl0044246 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 192 | DUPLICATE TP27/0.0-0.1 BAG | Jul 13, 2022 | | Soil | S22-Jl0044247 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 193 | EXTRA SS46/0.00-0.15 BG (ASBPA QUANT.) | Jul 11, 2022 | | Soil | S22-Jl0044248 | | | | | | | X | | | | | | | | | | | | | | | | | |
| **Test Counts** | | | | | | 8 | 55 | 4 | 1 | 3 | 12 | 55 | 35 | 12 | 35 | 2 | 41 | 1 | 11 | 7 | 7 | 103 | 39 | 14 | 14 | 1 | 1 | 4 | 4 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

22-JI0042658 to 22-JI0042664, 22-JI0042673, 22-JI0042687, 22-JI0042693, 22-JI0042756, 22-JI0042762, 22-JI0042742, 22-JI0042747, 22-JI0042766, 22-JI0042776 and 22-JI0042778: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

22-JI0042745: The sample received was not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-sample to be analysed accurately represented the sample received.

## Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 4.3°C |
| Sample correctly preserved | No |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

## Asbestos Counter/Identifier:

| | |
|---|---|
| Sayeed Abu | Senior Analyst-Asbestos |
| Laxman Dias | Senior Analyst-Asbestos |

## Authorised by:

| | |
|---|---|
| Laxman Dias | Senior Analyst-Asbestos |
| Sayeed Abu | Senior Analyst-Asbestos |



**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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**SMEC Australia Pty Ltd**
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**NSW 2060**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 20794**

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**Attention:** **STEVEN DRYSDALE**

**Report** **907569-DX-S**
Project name COWRA DSI
Project ID 30013211
Received Date Jul 15, 2022

| **Client Sample ID** | | | **BH12/0.5-0.6** | **TP20/0.3-0.4** | **TP20/2.4-2.5** | **QA04** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **S22-JI0042659** | **S22-JI0042695** | **S22-JI0042698** | **S22-JI0042790** |
| **Date Sampled** | | | **Jul 11, 2022** | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs)** | | | | | | |
| 2.3.7.8-TCDD | 0.1 | pg/g | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 13C12-2.3.7.8-TCDD | 1 | % | 84 | 46 | 46 | 93 |
| Total-TCDD | 0.1 | pg/g | < 0.1 | 27 | 8.3 | 54 |
| 2.3.7.8-TCDF | 0.1 | pg/g | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 13C12-2.3.7.8-TCDF | 1 | % | 46 | 37 | 39 | 64 |
| Total-TCDF | 0.1 | pg/g | < 0.1 | < 0.1 | 0.3 | 59 |
| 1.2.3.7.8-PeCDD | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-1.2.3.7.8-PeCDD | 1 | % | 76 | 58 | 54 | 110 |
| Total PeCDD | 0.5 | pg/g | < 0.7 | 6.4 | 5.1 | 61 |
| 1.2.3.7.8-PeCDF | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-1.2.3.7.8-PeCDF | 1 | % | 76 | 56 | 50 | 95 |
| 2.3.4.7.8-PeCDF | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-2.3.4.7.8-PeCDF | 1 | % | 56 | 60 | 54 | 120 |
| Total-PeCDF | 1 | pg/g | < 1.4 | < 1 | < 1 | < 1.5 |
| 1.2.3.4.7.8-HxCDD | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-1.2.3.4.7.8-HxCDD | 1 | % | 58 | 39 | 35 | 87 |
| 1.2.3.6.7.8-HxCDD | 0.5 | pg/g | < 0.7 | 1.4 | < 0.5 | < 0.7 |
| 13C12-1.2.3.6.7.8-HxCDD | 1 | % | 49 | 32 | 31 | 130 |
| 1.2.3.7.8.9-HxCDD | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| Total HxCDD | 1.5 | pg/g | < 2.1 | < 1.6 | < 1.5 | < 2.2 |
| 1.2.3.4.7.8-HxCDF | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-1.2.3.4.7.8-HxCDF | 1 | % | 56 | 39 | 33 | 140 |
| 2.3.4.6.7.8-HxCDF | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-2.3.4.6.7.8-HxCDF | 1 | % | 46 | 33 | 31 | 120 |
| 1.2.3.6.7.8-HxCDF | 0.5 | pg/g | < 0.7 | 1.0 | 0.6 | 1.1 |
| 13C12-1.2.3.6.7.8-HxCDF | 1 | % | 47 | 34 | 32 | 120 |
| 1.2.3.7.8.9-HxCDF | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |
| 13C12-1.2.3.7.8.9-HxCDF | 1 | % | 42 | 35 | 33 | 76 |
| Total-HxCDF | 2 | pg/g | < 2.8 | < 2.1 | < 2.1 | < 3 |
| 1.2.3.4.6.7.8-HpCDD | 0.5 | pg/g | < 0.7 | 10 | 4.0 | 7.3 |
| 13C12-1.2.3.4.6.7.8-HpCDD | 1 | % | 46 | 33 | 29 | 56 |
| Total-HpCDD | 0.5 | pg/g | < 0.7 | 22 | 13 | 5.4 |
| 1.2.3.4.6.7.8-HpCDF | 0.5 | pg/g | 0.7 | 1.8 | 1.9 | 1.6 |
| 13C12-1.2.3.4.6.7.8-HpCDF | 1 | % | 46 | 34 | 31 | 45 |
| 1.2.3.4.7.8.9-HpCDF | 0.5 | pg/g | < 0.7 | < 0.5 | < 0.5 | < 0.7 |

| Client Sample ID | | | BH12/0.5-0.6 | TP20/0.3-0.4 | TP20/2.4-2.5 | QA04 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042659 | S22-JI0042695 | S22-JI0042698 | S22-JI0042790 |
| Date Sampled | | | Jul 11, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs)** | | | | | | |
| 13C12-1.2.3.4.7.8.9-HpCDF | 1 | % | 44 | 36 | 33 | 55 |
| Total-HpCDF | 1 | pg/g | < 1.4 | 6.1 | 3.2 | 4.0 |
| OCDD | 1 | pg/g | 8.2 | 34 | 12 | 21 |
| 13C12-OCDD | 1 | % | 26 | 27 | 42 | 43 |
| OCDF | 1 | pg/g | < 1.4 | 1.9 | 1.5 | 18 |
| Lower bound TEQ (WHO) based on PCDD/F* | | pg/g | 0.0000000 | 0.40 | 0.10 | 0.20 |
| Medium bound TEQ (WHO) based on PCDD/F* | | pg/g | 0.80 | 0.90 | 0.70 | 1.0 |
| Upper bound TEQ (WHO) based on PCDD/F* | | pg/g | 1.6 | 1.4 | 1.2 | 1.8 |
| Lower bound TEQ (International) based on PCDD/F* | | pg/g | 0.0000000 | 0.40 | 0.10 | 0.20 |
| Medium bound TEQ (International) based on PCDD/F* | | pg/g | 0.70 | 0.90 | 0.60 | 0.90 |
| Upper bound TEQ (International) based on PCDD/F* | | pg/g | 1.4 | 1.3 | 1.1 | 1.6 |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)** | | | | | | |
| Lower bound TEQ (WHO) based on DL-PCB* | | pg/g | 0.00092 | 0.0094 | 0.0063 | 0.0022 |
| Medium bound TEQ (WHO) based on DL-PCB* | | pg/g | 0.010 | 0.016 | 0.013 | 0.0098 |
| Upper bound TEQ (WHO) based on DL-PCB* | | pg/g | 0.019 | 0.023 | 0.020 | 0.017 |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-non-ortho** | | | | | | |
| 3.3'.4.4'-TeCB (PCB 77) | 0.1 | pg/g | 9.4 | 18 | 7.5 | 23 |
| 13C12-3.3'.4.4'-TeCB (PCB 77L) | 1 | % | 150 | 44 | 35 | 91 |
| 3.4.4'.5-TeCB (PCB 81) | 0.1 | pg/g | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 13C12-3.4.4'.5-TeCB (PCB 81L) | 1 | % | 66 | 56 | 45 | 49 |
| 3.3'.4.4'.5-PeCB (PCB 126) | 0.1 | pg/g | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 13C12-3.3'.4.4'.5-PeCB (PCB 126L) | 1 | % | 71 | 50 | 38 | 100 |
| 3.3'.4.4'.5.5'-HxCB (PCB 169) | 0.1 | pg/g | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 13C12-3.3'.4.4'.5.5'-HxCB (PCB 169L) | 1 | % | 43 | 74 | 44 | 120 |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-mono-ortho** | | | | | | |
| 2.3.3'.4.4'-PeCB (PCB 105) | 0.1 | pg/g | 8.2 | 53 | 40 | 17 |
| 13C12-2.3.3'.4.4'-PeCB (PCB 105L) | 1 | % | 60 | 44 | 45 | 66 |
| 2.3.4.4'.5-PeCB (PCB 114 ) | 0.1 | pg/g | < 0.1 | 13 | 9.4 | < 0.1 |
| 13C12-2.3.4.4'.5-PeCB (PCB 114L) | 1 | % | 49 | 43 | 33 | 87 |
| 2.3'.4.4'.5-PeCB (PCB 118) | 0.1 | pg/g | 28 | 220 | 150 | 53 |
| 13C12-2.3'.4.4'.5-PeCB (PCB 118L) | 1 | % | 77 | 44 | 43 | 38 |
| 2'.3.4.4'.5-PeCB (PCB 123) | 0.1 | pg/g | < 0.1 | 37 | 20 | 1.4 |
| 13C12-2'.3.4.4'.5-PeCB (PCB 123L) | 1 | % | 92 | 43 | 52 | 28 |
| 2.3.3'.4.4'.5-HxCB (PCB 156) | 0.1 | pg/g | < 0.1 | 16 | 13 | 3.6 |
| 13C12-2.3.3'.4.4'.5-HxCB (PCB 156L) | 1 | % | 140 | 55 | 54 | 100 |
| 2.3.3'.4.4'.5'-HxCB (PCB 157) | 0.1 | pg/g | < 0.1 | 2.7 | < 0.1 | < 0.1 |
| 13C12-2.3.3'.4.4'.5'-HxCB (PCB 157L) | 1 | % | 77 | 55 | 43 | 100 |
| 2.3'.4.4'.5.5'-HxCB (PCB 167) | 0.1 | pg/g | < 0.1 | 39 | 19 | 8.1 |
| 13C12-2.3'.4.4'.5.5'-HxCB (PCB 167L) | 1 | % | 77 | 55 | 33 | 92 |
| 2.3.3'.4.4'.5.5'-HpCB (PCB 189) | 0.1 | pg/g | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 13C12-2.3.3'.4.4'.5.5'-HpCB (PCB 189L) | 1 | % | 34 | 43 | 44 | 110 |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) | Brisbane | Jul 26, 2022 | 1 Year |
| - Method: LTM-ORG-2330 Determination of PCDDs, PCDFs and DL-PCBs in Aqueous, Wipe, Air and Solid Samples by GC-MS/MS | | | |
| Dioxin-like Polychlorinated biphenyl (DL-PCBs) | | | |
| Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-non-ortho | Brisbane | Jul 26, 2022 | 1 Year |
| - Method: LTM-ORG-2330 Determination of PCDDs, PCDFs and DL-PCBs in Aqueous, Wipe, Air and Solid Samples by GC-MS/MS | | | |
| Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-mono-ortho | Brisbane | Jul 26, 2022 | 1 Year |
| - Method: LTM-ORG-2330 Determination of PCDDs, PCDFs and DL-PCBs in Aqueous, Wipe, Air and Solid Samples by GC-MS/MS | | | |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
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NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| **External Laboratory** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BH12/0.0-0.1 | Jul 11, 2022 | | Soil | S22-Jl0042657 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 2 | BH12/0.3-0.5 | Jul 11, 2022 | | Soil | S22-Jl0042658 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 3 | BH12/0.5-0.6 | Jul 11, 2022 | | Soil | S22-Jl0042659 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 4 | BH12/0.9-1.0 | Jul 11, 2022 | | Soil | S22-Jl0042660 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 5 | BH12/1.9-2.0 | Jul 11, 2022 | | Soil | S22-Jl0042661 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 6 | SS46/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042662 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 7 | SS45/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042663 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 8 | SS45/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042664 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 9 | SS52/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042665 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 10 | SS53/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042666 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 11 | SS53/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042667 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 12 | SS54/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042668 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 13 | BH29/0.1-0.2 | Jul 11, 2022 | | Soil | S22-Jl0042669 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 14 | BH29/0.5-0.6 | Jul 12, 2022 | | Soil | S22-Jl0042670 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 15 | BH29/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042671 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 16 | BH29/2.0-2.5 ENM | Jul 12, 2022 | | Soil | S22-Jl0042672 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 17 | HA39/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042673 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 18 | HA39/0.3-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042674 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 19 | BH32/0.4-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042675 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 20 | BH32/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042676 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 21 | BH32/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042677 | | | | | | | | | | | | | | | | | X | | | X | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 22 | HA31/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042678 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 23 | SS55/0.00-0.05 | Jul 12, 2022 | | Soil | S22-Jl0042679 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 24 | SS55/0.15-0.20 | Jul 12, 2022 | | Soil | S22-Jl0042680 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 25 | BH30/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042681 | | X | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 26 | BH30/0.4-0.6 ENM | Jul 12, 2022 | | Soil | S22-Jl0042682 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 27 | BH30/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042683 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 28 | BH30/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042684 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 29 | BH33/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042685 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 30 | BH33/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042686 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 31 | HA40/0.15-0.25 | Jul 12, 2022 | | Soil | S22-Jl0042687 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 32 | TP28/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042688 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 33 | TP28/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042689 | | | | | | | | | | | | X | | | | | X | X | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 34 | TP28/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042690 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 35 | TP11/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042691 | X | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 36 | TP11/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042692 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 37 | TP11/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042693 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 38 | TP20/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042694 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 39 | TP20/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042695 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 40 | TP20/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042696 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 41 | TP20/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042697 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 42 | TP20/2.4-2.5 | Jul 13, 2022 | | Soil | S22-Jl0042698 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 43 | TP13/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042699 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 44 | TP13/0.25-0.35 | Jul 13, 2022 | | Soil | S22-Jl0042700 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 45 | TP13/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042701 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 46 | TP14/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042702 | | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 47 | TP14/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042703 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 48 | TP14/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042704 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 49 | TP14/0.5 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042705 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 50 | TP19/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042706 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 51 | TP19/0.2 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042707 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 52 | TP19/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042708 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 53 | TP19/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042709 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 54 | TP19/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042710 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 55 | TP19/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042711 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 56 | TP19/1.2-1.3 | Jul 13, 2022 | | Soil | S22-Jl0042712 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
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**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
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**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 57 | TP16/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042713 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 58 | TP16/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042714 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 59 | TP16/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042715 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 60 | TP16/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042716 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 61 | TP15/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042717 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 62 | TP15/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042718 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 63 | TP15/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042719 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 64 | TP15/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042720 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 65 | TP18/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042721 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 66 | TP18/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042722 | | X | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 67 | TP18/0.4-0.5 ENM | Jul 13, 2022 | | Soil | S22-Jl0042723 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 68 | TP18/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042724 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 69 | TP17/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042725 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 70 | TP17/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042726 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | TP17/0.0-0.2 ENM | Jul 13, 2022 | | Soil | S22-Jl0042727 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 72 | TP23/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042728 | | | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 73 | TP23/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042729 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | TP23/0.20-0.25 | Jul 13, 2022 | | Soil | S22-Jl0042730 | | | | | | | | | | | | | | | | | X | | X | | | | | | |
| 75 | TP23/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042731 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |
| 76 | TP23/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042732 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | TP23/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042733 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 78 | TP24/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042734 | X | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 79 | TP24/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042735 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 80 | TP24/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042736 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 81 | TP24/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042737 | | | | X | | | | | | | | | | | | | | | | | | | | |
| 82 | TP27/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042738 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 83 | TP27/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042739 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 84 | TP27/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042740 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 85 | TP27/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042741 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 86 | TP26/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042742 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 87 | TP26/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042743 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 88 | TP26/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042744 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 89 | TP25/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042745 | X | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 90 | TP25/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042746 | | | | | | | | | | | | | | X | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 91 | TP25/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042747 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 92 | TP21/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042748 | | X | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 93 | TP21/0.2-0.3 | Jul 13, 2022 | | Soil | S22-Jl0042749 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 94 | TP21/0.2-0.3 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042750 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 95 | TP21/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042751 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 96 | TP22/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042752 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 97 | TP22/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042753 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 98 | TP22/0.0-0.1 ENM | Jul 13, 2022 | | Soil | S22-Jl0042754 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 99 | TP22/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042755 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 100 | HA36/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042756 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 101 | HA36/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042757 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 102 | HA37/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042758 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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**Christchurch**
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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 103 | HA37/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042759 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 104 | HA38/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042760 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 105 | HA38/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042761 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 106 | HA34/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042762 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 107 | HA34/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042763 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 108 | HA35/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042764 | X | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 109 | HA35/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042765 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 110 | SS47/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042766 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 111 | SS48/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042767 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 112 | SS48/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042768 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 113 | SS50/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042769 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 114 | SS51/0.00- | Jul 14, 2022 | | Soil | S22-Jl0042770 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | SS51/0.05-0.10 | Jul 14, 2022 | | Soil | S22-Jl0042771 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 116 | HA41/0..0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042772 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 117 | HA41/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042773 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 118 | SS49/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042774 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 119 | SS49/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042775 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 120 | HA44/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042776 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 121 | HA44/0.2-0.3 | Jul 14, 2022 | | Soil | S22-Jl0042777 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 122 | HA43/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042778 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 123 | HA43/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042779 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 124 | HA42/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042780 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 125 | COWRA_EIL | Jul 14, 2022 | | Soil | S22-Jl0042781 | | | | | | | | | | | | | X | | | | X | | | | | | | |
| 126 | CT01 | Jul 14, 2022 | | Soil | S22-Jl0042782 | | | | | X | | | | | | | | | | | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 127 | CT02 | Jul 14, 2022 | | Soil | S22-Jl0042783 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 128 | RINSATE01 | Jul 11, 2022 | | Water | S22-Jl0042784 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 129 | RINSATE02 | Jul 12, 2022 | | Water | S22-Jl0042785 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 130 | RINSATE03 | Jul 14, 2022 | | Water | S22-Jl0042786 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 131 | QA01 | Jul 11, 2022 | | Soil | S22-Jl0042787 | | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 132 | QA02 | Jul 12, 2022 | | Soil | S22-Jl0042788 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 133 | QA03 | Jul 12, 2022 | | Soil | S22-Jl0042789 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 134 | QA04 | Jul 13, 2022 | | Soil | S22-Jl0042790 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 135 | QA06 | Jul 13, 2022 | | Soil | S22-Jl0042791 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 136 | QA08 | Jul 14, 2022 | | Soil | S22-Jl0042792 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 137 | SOIL TRIP SPIKE | Jun 30, 2022 | | Soil | S22-Jl0042793 | | | | | | | | | | | | | | | | | | | | | | X | | |
| 138 | SOIL TRIP BLANK | Jun 30, 2022 | | Soil | S22-Jl0042794 | | | | | | | | | | | | | | | | | | | | | X | | | |
| 139 | TP14/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042795 | | | | | | | X | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 140 | TP19/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042796 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 141 | BH12/2.9-3.0 | Jul 11, 2022 | | Soil | S22-Jl0042797 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 142 | BH12/3.9-4.0 | Jul 11, 2022 | | Soil | S22-Jl0042798 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 143 | BH12/4.9-5.0 | Jul 11, 2022 | | Soil | S22-Jl0042799 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 144 | SS46/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042800 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 145 | SS52/0.10-0.15 | Jul 11, 2022 | | Soil | S22-Jl0042801 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 146 | SS54/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042802 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 147 | BH29/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042803 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 148 | BH29/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042804 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 149 | BH29/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042805 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 150 | BH29/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042806 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 151 | BH29/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042807 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 152 | BH29/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042808 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 153 | BH32/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042809 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 154 | BH32/0.6-0.7 | Jul 12, 2022 | | Soil | S22-Jl0042810 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 155 | BH32/1.0-1.1 | Jul 12, 2022 | | Soil | S22-Jl0042811 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 156 | BH32/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042812 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 157 | BH32/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042813 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 158 | BH32/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042814 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 159 | BH32/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042815 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 160 | BH30/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042816 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 161 | BH30/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042817 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 162 | BH30/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042818 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 163 | BH33/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042819 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 164 | BH33/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042820 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 165 | TP28/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042821 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 166 | TP11/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042822 | | | | | | | X | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 167 | TP11/0.5-0.6 ENM | Jul 13, 2022 | | Soil | S22-Jl0042823 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 168 | TP20/1.9-2.0 | Jul 13, 2022 | | Soil | S22-Jl0042824 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 169 | TP13/0.2-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042825 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 170 | TP13/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042826 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 171 | TP14/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042827 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 172 | TP14/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042828 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 173 | TP15/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042829 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 174 | TP17/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042830 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 175 | TP17/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042831 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 176 | TP23/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042832 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 177 | TP24/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042833 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 178 | TP27/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042834 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 179 | TP26/0.1-0.2 | Jul 13, 2022 | | Soil | S22-Jl0042835 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 180 | TP26/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042836 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 181 | TP25/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042837 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 182 | TP25/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042838 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 183 | TP25/0.8-0.9 | Jul 13, 2022 | | Soil | S22-Jl0042839 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 184 | TP21/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042840 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 185 | TP22/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042841 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 186 | SS50/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042842 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 187 | QA05 | Jul 13, 2022 | | Soil | S22-Jl0042843 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 188 | QA07 | Jul 14, 2022 | | Soil | S22-Jl0042844 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 189 | EXTRA TP13/0.5-0.6 JAR | Jul 11, 2022 | | Soil | S22-Jl0043103 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 190 | EXTRA BH33/0.4-0.6 | Jun 30, 2022 | | Soil | S22-Jl0044245 | | | | | | | X | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | BH33/0.4-0.6 ENM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | EXTRA TP19/0.4-0.5 ENM | Jun 30, 2022 | | Soil | S22-Jl0044246 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 192 | DUPLICATE TP27/0.0-0.1 BAG | Jul 13, 2022 | | Soil | S22-Jl0044247 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 193 | EXTRA SS46/0.00-0.15 BG (ASBPA QUANT.) | Jul 11, 2022 | | Soil | S22-Jl0044248 | | | | | | | X | | | | | | | | | | | | | | | | | |
| **Test Counts** | | | | | | 8 | 55 | 4 | 1 | 3 | 12 | 55 | 35 | 12 | 35 | 2 | 41 | 1 | 11 | 7 | 7 | 103 | 39 | 14 | 14 | 1 | 1 | 4 | 4 |

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# Internal Quality Control Review and Glossary General – PCDDs/PCDFs/PCBs/PAHs

## General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM), as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are corrected for surrogate recoveries for PCDDs/PCDFs, DL-PCBs and PAH compounds.
5. Analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Aqueous samples containing visible particles and containing greater than one percent suspended solids are prepared by filtering solids and extracting the solids separately.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

## Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

There are no demonstrated maximum holding times associated with PCDDs/PCDFs in aqueous, solid, semi-solid, tissues, or other sample matrices. If stored in the dark at 0-6°C and preserved as per QS3001 (if required), aqueous samples may be stored for up to one year. Similarly, if stored in the dark at <-10°C, solid, semi-solid, multi-phase, and tissue samples may be stored for up to one year.

## Units

| | | | |
|---|---|---|---|
| **µg:** micrograms per kilogram | **pg:** picograms | **ng:** nanograms | **ppb:** parts per billion |
| **µg/kg:** micrograms per kilogram | **pg/g:** picograms per gram | **ng/L:** nanograms per litre | **ppt:** parts per trillion |
| **pg/L:** picograms per litre | **ppq:** parts per quadrillion | | |

## Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **Benzo(a)pyrene TEQ** | Benzo(a)pyrene Toxic Equivalency Quotient or Toxic Equivalents |
| **CARB** | California Air Resources Board |
| **COC** | Chain of Custody |
| **CRM** | Certified Reference Material - reported as percent recovery. |
| **CP** | Client Parent - QC was performed on samples pertaining to this report. |
| **DL-PCB** | Dioxin-like Polychlorinated Biphenyls. |
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry weight basis. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **Homologue** | Tetra- through heptachlorinated congeners |
| **Method Blank** | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| **NCP** | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **LOR/LOQ** | Limit of Reporting/Limit of Quantification. |
| **PAHs** | Polycyclic aromatic hydrocarbons |
| **PCDD/PCDF** | Polychlorinated dibenzo-*p*-dioxins/Polychlorinated dibenzofurans |
| **PEF** | Potency equivalency factors (CARB) |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.3 -Table B-5. Dioxin/Furan Analysis by High-Resolution Gas Chromatography/Low-Resolution Mass Spectrometry (Method 8280 |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **Spike** | Addition of the analyte to the sample and reported as percentage recovery. |
| **SRA** | Sample Receipt Advice |
| **Surr** | Surrogate - The addition of a like compound to the analyte target and reported as percentage recovery |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **TEF** | Toxicity Equivalent Factor |
| **TEQ** | Toxic Equivalency Quotient or Toxic Equivalents |
| **I-TEQ** | International Toxic Equivalents - Kutz et al., 1990 (Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans) |
| **WHO-TEF$_{DF}$** | WHO Toxic Equivalents - Van den Berg et al., 2005 (Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans) |
| **WHO-TEF$_{P}$** | WHO Toxic Equivalents - Van den Berg et al., 2005 (dioxin-like PCBs) |
| **US EPA** | United States Environmental Protection Agency |
| **WHO** | World Health Organisation |

## QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

## QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit Results between 10-20 times the LOR : RPD must lie between 0-50% Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 30-140%

## Internal Quality Control Review and Glossary General – PCDDs/PCDFs/PCBs/PAHs (contd.)

Table 1: Summary of WHO 2005 and I-TEF values

| Compound | WHO 2005 TEF[a] | I-TEF[b] |
|---|---|---|
| chlorinated dibenzo-p-dioxins | | |
| 2,3,7,8-TCDD | 1 | 1 |
| 1,2,3,7,8-PeCDD | 1 | 0.5 |
| 1,2,3,4,7,8-HxCDD | 0.1 | 0.1 |
| 1,2,3,6,7,8-HxCDD | 0.1 | 0.1 |
| 1,2,3,7,8,9-HxCDD | 0.1 | 0.1 |
| 1,2,3,4,6,7,8-HpCDD | 0.01 | 0.01 |
| OCDD | 0.0003 | 0.001 |
| chlorinated dibenzofurans | | |
| 2,3,7,8-TCDF | 0.1 | 0.1 |
| 1,2,3,7,8-PeCDF | 0.03 | 0.05 |
| 2,3,4,7,8-PeCDF | 0.3 | 0.5 |
| 1,2,3,4,7,8-HxCDF | 0.1 | 0.1 |
| 1,2,3,6,7,8-HxCDF | 0.1 | 0.1 |
| 1,2,3,7,8,9-HxCDF | 0.1 | 0.1 |
| 2,3,4,6,7,8-HxCDF | 0.1 | 0.1 |
| 1,2,3,4,6,7,8-HpCDF | 0.01 | 0.01 |
| 1,2,3,6,7,8,9-HpCDF | 0.01 | 0.01 |
| OCDF | 0.0003 | 0.001 |
| non-ortho substituted PCBs | | |
| 3,3',4,4'-tetraCB (PCB 77) | 0.0001 | |
| 3,4,4',5-tetraCB (PCB 81) | 0.0003 | |
| 3,3',4,4',5-pentaCB (PCB 126) | 0.1 | |
| 3,3',4,4',5,5'-hexaCB (PCB 169) | 0.03 | |
| mono-ortho substituted PCBs | | |
| 2,3,3',4,4'-pentaCB (PCB 105) | 0.00003 | |
| 2,3,4,4',5-pentaCB (PCB 114) | 0.00003 | |
| 2,3',4,4',5-pentaCB (PCB 118) | 0.00003 | |
| 2',3,4,4',5-pentaCB (PCB 123) | 0.00003 | |
| 2,3,3',4,4',5-hexaCB (PCB 156) | 0.00003 | |
| 2,3,3',4,4',5'-hexaCB (PCB 157) | 0.00003 | |
| 2,3',4,4',5,5'-hexaCB (PCB 167) | 0.00003 | |
| 2,3,3',4,4',5,5'-heptaCB (PCB 189) | 0.00003 | |

Table 2: PAH Potency Equivalency Factors (PEF)

| *Analyte* | *CARB PEF*[c] | *US EPA PEF*[d] |
|---|---|---|
| Anthracene | | |
| Pyrene | | |
| Benzo(g,h,i)perylene | | |
| Benzo[e]pyrene | | |
| Indeno(1,2,3-cd)pyrene | 0.1 | 0.1 |
| Perylene | | |
| Benzo[b]fluoranthene | 0.1 | 0.1 |
| Fluoranthene | | |
| Benzo[k]fluoranthene | 0.1 | 0.01 |
| Acenaphthylene | | |
| Chrysene | 0.01 | 0.001 |
| Benzo[a]pyrene | 1.0 | 1.0 |
| Dibenz[a,h]anthracene | 0.4 | 1.0 |
| Benz(a)anthracene | 0.1 | 0.1 |
| Acenaphthene | | |
| Phenanthrene | | |
| Fluorene | | |
| Naphthalene | | |
| 2-Methylnaphthalene | | |

[a]Van den Berg, Martin, Linda S. Birnbaum, Michael Denison, Mike De Vito, William Farland, Mark Feeley, Heidelore Fiedler, Helen Hakansson, Annika Hanberg, Laurie Haws, Martin Rose, Stephen Safe, Dieter Schrenk, Chiharu Tohyama, Angelika Tritscher, Jouko Tuomisto, Mats Tysklind, Nigel Walker, and Richard E. Peterson. 2006. "The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds." Toxicological Sciences 93(2): 223-241.

[b]Kutz F.W., D.G. Barnes, E.W. Bretthauer, D.P. Bottimore, H. Greim (1990): The International Toxicity Equivalency Factor (I-TEF) Method for Estimating Risks Associated with Exposures to Complex Mixtures of Dioxins and Related Compounds. Toxicol. Environ. Chem. 26, 99-110.

[c]CARB (California Air Resources Board). 1994. Benzo(a)pyrene as a toxic air contaminant, July 1994 https://ww2.arb.ca.gov/sites/default/files/classic//toxics/id/summary/bap.pdf

[d]US EPA (United States Environmental Protection Agency). Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons, EPA/600/R-93/089, July 1993

'Upper-bound' means the concept, which requires using the limit of quantification for the contribution of each non-quantified congener or PAH compound.

'Lower-bound' means the concept, which requires using zero for the contribution of each non-quantified congener or PAH compound.

'Medium-bound' means the concept, which requires using half of the limit of quantification calculating the contribution of each non-quantified congener or PAH compound.

Total Homologue Quantification: The first and last eluting isomers for each homologous series from tetra- through heptachlorinated congeners is summed where the mean response factor is used for those homologous series for all individual 2,3,7,8-substituted congeners. This analytical protocol will make the assumption that the GC-MS/MS responses of all isomers in a homologous series that do not have the 2,3,7,8-substitution pattern are the same as the responses of one or more of the 2,3,7,8-substituted isomer(s) in that homologous series.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-non-ortho** | | | | | | | |
| 3.3'.4.4'-TeCB (PCB 77) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 3.4.4'.5-TeCB (PCB 81) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 3.3'.4.4'.5-PeCB (PCB 126) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 3.3'.4.4'.5.5'-HxCB (PCB 169) | pg/g | < 0.1 | | | 0.1 | Pass | |
| **Method Blank** | | | | | | | |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-mono-ortho** | | | | | | | |
| 2.3.3'.4.4'-PeCB (PCB 105) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2.3.4.4'.5-PeCB (PCB 114 ) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2.3'.4.4'.5-PeCB (PCB 118) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2'.3.4.4'.5-PeCB (PCB 123) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2.3.3'.4.4'.5-HxCB (PCB 156) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2.3.3'.4.4'.5'-HxCB (PCB 157) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2.3'.4.4'.5.5'-HxCB (PCB 167) | pg/g | < 0.1 | | | 0.1 | Pass | |
| 2.3.3'.4.4'.5.5'-HpCB (PCB 189) | pg/g | < 0.1 | | | 0.1 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-non-ortho** | | | | | | | |
| 3.3'.4.4'-TeCB (PCB 77) | % | 93 | | | 70-130 | Pass | |
| 3.4.4'.5-TeCB (PCB 81) | % | 93 | | | 70-130 | Pass | |
| 3.3'.4.4'.5-PeCB (PCB 126) | % | 91 | | | 70-130 | Pass | |
| 3.3'.4.4'.5.5'-HxCB (PCB 169) | % | 95 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Dioxin-Like Polychlorinated biphenyls (DL-PCBs)-mono-ortho** | | | | | | | |
| 2.3.3'.4.4'-PeCB (PCB 105) | % | 91 | | | 70-130 | Pass | |
| 2.3.4.4'.5-PeCB (PCB 114 ) | % | 82 | | | 70-130 | Pass | |
| 2.3'.4.4'.5-PeCB (PCB 118) | % | 100 | | | 70-130 | Pass | |
| 2'.3.4.4'.5-PeCB (PCB 123) | % | 86 | | | 70-130 | Pass | |
| 2.3.3'.4.4'.5-HxCB (PCB 156) | % | 86 | | | 70-130 | Pass | |
| 2.3.3'.4.4'.5'-HxCB (PCB 157) | % | 89 | | | 70-130 | Pass | |
| 2.3'.4.4'.5.5'-HxCB (PCB 167) | % | 94 | | | 70-130 | Pass | |
| 2.3.3'.4.4'.5.5'-HpCB (PCB 189) | % | 84 | | | 70-130 | Pass | |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 4.3°C |
| Sample correctly preserved | No |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| Q15 | The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |

### Authorised by:

| | |
|---|---|
| Emma Beesley | Analytical Services Manager |
| Charl Du Preez | Senior Analyst-Sample Properties |
| Gabriele Cordero | Senior Analyst-Metal |
| Jonathon Angell | Senior Analyst-Organic |
| Laxman Dias | Senior Analyst-Asbestos |
| Maria Tian | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Volatile |
| Ryan Phillips | Senior Analyst-Inorganic |
| Sayeed Abu | Senior Analyst-Asbestos |



**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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**SMEC Australia Pty Ltd**
**Level 6, 76 Berry Street**
**North Sydney**
**NSW 2060**

**NATA Accredited**
**Accreditation Number 1261**
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**Attention:** **STEVEN DRYSDALE**

**Report** **907569-S**
Project name COWRA DSI
Project ID 30013211
Received Date Jul 15, 2022

| **Client Sample ID** | | | **BH12/0.0-0.1** | **BH12/0.3-0.5** | **BH12/0.5-0.6** | **BH12/0.9-1.0** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **S22-JI0042657** | **S22-JI0042658** | **S22-JI0042659** | **S22-JI0042660** |
| **Date Sampled** | | | **Jul 11, 2022** | **Jul 11, 2022** | **Jul 11, 2022** | **Jul 11, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | 54 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | 70 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | 124 | < 50 | < 50 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | 100 | < 100 | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | 0.4 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | 0.3 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | 0.7 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 74 | 73 | 78 | 74 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

| Client Sample ID | | | BH12/0.0-0.1 | BH12/0.3-0.5 | BH12/0.5-0.6 | BH12/0.9-1.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042657 | S22-JI0042658 | S22-JI0042659 | S22-JI0042660 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 82 | 53 | 75 | 81 |
| p-Terphenyl-d14 (surr.) | 1 | % | 69 | 57 | 60 | 78 |
| | | | | | | |
| % Moisture | 1 | % | 19 | 15 | 21 | 13 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | 66 | 71 | 95 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 61 | 77 | 89 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | - | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | BH12/0.0-0.1 | BH12/0.3-0.5 | BH12/0.5-0.6 | BH12/0.9-1.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042657 | S22-JI0042658 | S22-JI0042659 | S22-JI0042660 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Dichlorvos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | - | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | - | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | - | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | - | 62 | 67 | 107 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | - | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | 66 | 71 | 95 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 61 | 77 | 89 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | 160 | 2.2 | < 2 |
| Cadmium | 0.4 | mg/kg | - | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | - | 36 | 18 | 20 |
| Copper | 5 | mg/kg | - | 49 | 16 | 28 |
| Lead | 5 | mg/kg | - | 20 | 47 | 110 |
| Mercury | 0.1 | mg/kg | - | 0.3 | 0.2 | 0.4 |
| Nickel | 5 | mg/kg | - | 28 | 12 | 9.1 |
| Zinc | 5 | mg/kg | - | 30 | 130 | 470 |

| Client Sample ID | | | BH12/1.9-2.0 | SS46/0.00-0.05 | SS45/0.00-0.05 | SS45/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042661 | S22-JI0042662 | S22-JI0042663 | S22-JI0042664 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | 34 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | 290 | 150 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | 270 | 160 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | 560 | 344 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | 500 | 260 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | 130 | 110 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | 630 | 370 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 78 | 103 | 75 | 56 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 86 | 78 | 80 | 81 |
| p-Terphenyl-d14 (surr.) | 1 | % | 83 | 77 | 81 | 82 |
| | | | | | | |
| % Moisture | 1 | % | 7.9 | 11 | 16 | 14 |

| Client Sample ID | | | BH12/1.9-2.0 | SS46/0.00-0.05 | SS45/0.00-0.05 | SS45/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042661 | S22-JI0042662 | S22-JI0042663 | S22-JI0042664 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 99 | 99 | 96 | 86 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 81 | 85 | 84 | 86 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | BH12/1.9-2.0 | SS46/0.00-0.05 | SS45/0.00-0.05 | SS45/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042661 | S22-JI0042662 | S22-JI0042663 | S22-JI0042664 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 89 | 109 | 105 | 96 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 99 | 99 | 96 | 86 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 81 | 85 | 84 | 86 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 2.7 | < 2 | 2.4 | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | 0.5 | < 0.4 |
| Chromium | 5 | mg/kg | 43 | 19 | 21 | 17 |
| Copper | 5 | mg/kg | 15 | 33 | 25 | 15 |
| Lead | 5 | mg/kg | 15 | 33 | 98 | 50 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | 0.2 | 0.2 |
| Nickel | 5 | mg/kg | 17 | 9.4 | 10 | 8.9 |
| Zinc | 5 | mg/kg | 40 | 65 | 520 | 160 |
| **Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.4-Trimethylbenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |

| Client Sample ID | | | BH12/1.9-2.0 | SS46/0.00-0.05 | SS45/0.00-0.05 | SS45/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042661 | S22-JI0042662 | S22-JI0042663 | S22-JI0042664 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Volatile Organics** | | | | | | |
| 1.3.5-Trimethylbenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Chlorotoluene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | - | - | < 0.5 | - |
| Allyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Bromobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon disulfide | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Ethylbenzene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Iodomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | - | - | < 0.5 | - |
| m&p-Xylenes | 0.2 | mg/kg | - | - | < 0.2 | - |
| Methylene Chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| o-Xylene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Styrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Toluene | 0.1 | mg/kg | - | - | < 0.1 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Xylenes - Total* | 0.3 | mg/kg | - | - | < 0.3 | - |
| Total MAH* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | - | 75 | - |
| Toluene-d8 (surr.) | 1 | % | - | - | 89 | - |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |

| Client Sample ID | | | BH12/1.9-2.0 | SS46/0.00-0.05 | SS45/0.00-0.05 | SS45/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042661 | S22-JI0042662 | S22-JI0042663 | S22-JI0042664 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Iodomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Methylene Chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Toluene-d8 (surr.) | 1 | % | - | - | 89 | - |

| Client Sample ID | | | SS52/0.00-0.05 | SS53/0.00-0.05 | SS53/0.15-0.20 | SS54/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042665 | S22-JI0042666 | S22-JI0042667 | S22-JI0042668 |
| Date Sampled | | | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 | Jul 11, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| % Moisture | 1 | % | 10 | 4.7 | 22 | 4.8 |
| **Heavy Metals** | | | | | | |
| Lead | 5 | mg/kg | 31 | 280 | 160 | 15 |
| Zinc | 5 | mg/kg | 94 | 460 | 230 | 190 |

| Client Sample ID | | | BH29/0.1-0.2 | BH29/0.5-0.6 | BH29/1.9-2.0 | BH29/2.0-2.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042669 | S22-JI0042670 | S22-JI0042671 | S22-JI0042672 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 87 | 86 | 108 | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 79 | 76 | 74 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 77 | 76 | 71 | - |
| | | | | | | |
| % Moisture | 1 | % | 11 | 13 | 11 | - |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | - | - | 13 | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | - | - | 8.0 | - |

| Client Sample ID | | | BH29/0.1-0.2 | BH29/0.5-0.6 | BH29/1.9-2.0 | BH29/2.0-2.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042669 | S22-JI0042670 | S22-JI0042671 | S22-JI0042672 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | - | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | - | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | - | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 79 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 81 | - | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Coumaphos | 2 | mg/kg | < 2 | - | - | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | - |

| Client Sample ID | | | BH29/0.1-0.2 | BH29/0.5-0.6 | BH29/1.9-2.0 | BH29/2.0-2.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042669 | S22-JI0042670 | S22-JI0042671 | S22-JI0042672 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | - |
| Omethoate | 2 | mg/kg | < 2 | - | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Triphenylphosphate (surr.) | 1 | % | 66 | - | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 79 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 81 | - | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | < 2 | 2.5 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | - |
| Chromium | 5 | mg/kg | 9.6 | 39 | 32 | - |
| Copper | 5 | mg/kg | 10 | 14 | 13 | - |
| Lead | 5 | mg/kg | 11 | 7.6 | 15 | - |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Nickel | 5 | mg/kg | 5.3 | 17 | 13 | - |
| Zinc | 5 | mg/kg | 33 | 31 | 29 | - |
| **Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2.4-Trimethylbenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |

| Client Sample ID | | | BH29/0.1-0.2 | BH29/0.5-0.6 | BH29/1.9-2.0 | BH29/2.0-2.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042669 | S22-JI0042670 | S22-JI0042671 | S22-JI0042672 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Volatile Organics** | | | | | | |
| 1.3.5-Trimethylbenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 4-Chlorotoluene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Allyl chloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Bromobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromochloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromodichloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromoform | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromomethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Carbon disulfide | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Carbon Tetrachloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chloroform | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Dibromochloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Dibromomethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Iodomethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Methylene Chloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Styrene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Tetrachloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Trichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Trichlorofluoromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Vinyl chloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | - | - |
| Total MAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 87 | 86 | - | - |
| Toluene-d8 (surr.) | 1 | % | 102 | 100 | - | - |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |

| Client Sample ID | | | BH29/0.1-0.2 | BH29/0.5-0.6 | BH29/1.9-2.0 | BH29/2.0-2.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042669 | S22-JI0042670 | S22-JI0042671 | S22-JI0042672 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromodichloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromoform | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Bromomethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Carbon Tetrachloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chlorobenzene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chloroform | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Dibromochloromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Dibromomethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Iodomethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Methylene Chloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Tetrachloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Trichloroethene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Trichlorofluoromethane | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Vinyl chloride | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Toluene-d8 (surr.) | 1 | % | 102 | 100 | - | - |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | - | 3.8 |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | - | < 0.1 |
| Glass* | 0.1 | % | - | - | - | < 0.1 |
| Asphalt* | 0.1 | % | - | - | - | < 0.1 |
| Stone* | 0.1 | % | - | - | - | 0.6 |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | - | < 0.1 |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | - | < 0.1 |
| Clay lumps and other friable material* | 0.1 | % | - | - | - | 99 |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | - | < 0.05 |
| Plastic* | 0.05 | % | - | - | - | < 0.05 |
| Bitumen* | 0.05 | % | - | - | - | < 0.05 |
| Paper* | 0.05 | % | - | - | - | < 0.05 |

| Client Sample ID | | | BH29/0.1-0.2 | BH29/0.5-0.6 | BH29/1.9-2.0 | BH29/2.0-2.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042669 | S22-JI0042670 | S22-JI0042671 | S22-JI0042672 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Foreign Material - Type III** | | | | | | |
| Cloth* | 0.05 | % | - | - | - | < 0.05 |
| Paint* | 0.05 | % | - | - | - | < 0.05 |
| Wood* | 0.05 | % | - | - | - | < 0.05 |
| Vegetable matter* | 0.05 | % | - | - | - | < 0.05 |

| Client Sample ID | | | HA39/0.0-0.1 | HA39/0.3-0.5 | BH32/0.4-0.5 | BH32/1.9-2.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042673 | S22-JI0042674 | S22-JI0042675 | S22-JI0042676 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | - | - | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | - | - | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | - | - | < 50 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | - | - | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | - | - | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | - | - | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | - | - | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | - | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | - | - | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | - | 112 | 103 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |

| Client Sample ID | | | HA39/0.0-0.1 | HA39/0.3-0.5 | BH32/0.4-0.5 | BH32/1.9-2.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042673 | S22-JI0042674 | S22-JI0042675 | S22-JI0042676 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Fluorene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | - | 82 | 78 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | - | 78 | 76 |
| | | | | | | |
| % Moisture | 1 | % | 9.6 | 14 | 12 | 11 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | - | 4.1 | - |
| Cadmium | 0.4 | mg/kg | - | - | < 0.4 | - |
| Chromium | 5 | mg/kg | - | - | 43 | - |
| Copper | 5 | mg/kg | - | - | 16 | - |
| Lead | 5 | mg/kg | 17 | 33 | 20 | - |
| Mercury | 0.1 | mg/kg | - | - | < 0.1 | - |
| Nickel | 5 | mg/kg | - | - | 20 | - |
| Zinc | 5 | mg/kg | 68 | 87 | 40 | - |

| Client Sample ID | | | BH32/3.9-4.0 | HA31/0.1-0.2 | SS55/0.00-0.05 | SS55/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042677 | S22-JI0042678 | S22-JI0042679 | S22-JI0042680 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | 62 |
| TRH C29-C36 | 50 | mg/kg | < 50 | 54 | < 50 | 59 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | 54 | < 50 | 121 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 66 | 72 | 80 | 57 |

| Client Sample ID | | | BH32/3.9-4.0 | HA31/0.1-0.2 | SS55/0.00-0.05 | SS55/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042677 | S22-JI0042678 | S22-JI0042679 | S22-JI0042680 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 80 | 78 | 80 | 89 |
| p-Terphenyl-d14 (surr.) | 1 | % | 81 | 79 | 80 | 93 |
| | | | | | | |
| % Moisture | 1 | % | 14 | 5.9 | 4.8 | 14 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | - | 93 | 102 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | 83 | 95 |

| Client Sample ID | | | BH30/0.3-0.4 | BH30/0.4-0.6 ENM | BH30/1.9-2.0 | BH30/2.9-3.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042681 | S22-JI0042682 | S22-JI0042683 | S22-JI0042684 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | - | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | - | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | - | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | - | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | - | < 50 | < 50 |

| Client Sample ID | | | BH30/0.3-0.4 | BH30/0.4-0.6 ENM | BH30/1.9-2.0 | BH30/2.9-3.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042681 | S22-JI0042682 | S22-JI0042683 | S22-JI0042684 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | - | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | - | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | - | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | - | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | - | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | - | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | - | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | - | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | - | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 90 | - | 91 | 78 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | - | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | - | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 78 | - | 75 | 82 |
| p-Terphenyl-d14 (surr.) | 1 | % | 73 | - | 58 | 84 |
| | | | | | | |
| % Moisture | 1 | % | 12 | - | 13 | 20 |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | 77 | - | - | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | 7.0 | - | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 4.1 | - | - | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | - | - | - |
| Chromium | 5 | mg/kg | 41 | - | - | - |
| Copper | 5 | mg/kg | 15 | - | - | - |

| Client Sample ID | | | BH30/0.3-0.4 | BH30/0.4-0.6 ENM | BH30/1.9-2.0 | BH30/2.9-3.0 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042681 | S22-JI0042682 | S22-JI0042683 | S22-JI0042684 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Lead | 5 | mg/kg | 12 | - | - | - |
| Mercury | 0.1 | mg/kg | < 0.1 | - | - | - |
| Nickel | 5 | mg/kg | 22 | - | - | - |
| Zinc | 5 | mg/kg | 38 | - | - | - |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | 3.4 | - | - |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | < 0.1 | - | - |
| Glass* | 0.1 | % | - | < 0.1 | - | - |
| Asphalt* | 0.1 | % | - | < 0.1 | - | - |
| Stone* | 0.1 | % | - | 0.8 | - | - |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | < 0.1 | - | - |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | < 0.1 | - | - |
| Clay lumps and other friable material* | 0.1 | % | - | 99 | - | - |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | < 0.05 | - | - |
| Plastic* | 0.05 | % | - | < 0.05 | - | - |
| Bitumen* | 0.05 | % | - | < 0.05 | - | - |
| Paper* | 0.05 | % | - | < 0.05 | - | - |
| Cloth* | 0.05 | % | - | < 0.05 | - | - |
| Paint* | 0.05 | % | - | < 0.05 | - | - |
| Wood* | 0.05 | % | - | < 0.05 | - | - |
| Vegetable matter* | 0.05 | % | - | < 0.05 | - | - |

| Client Sample ID | | | BH33/0.3-0.4 | BH33/0.9-1.0 | HA40/0.15-0.25 | TP28/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042685 | S22-JI0042686 | S22-JI0042687 | S22-JI0042688 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | 68 | < 50 | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | 68 | < 50 | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | - |

| Client Sample ID | | | BH33/0.3-0.4 | BH33/0.9-1.0 | HA40/0.15-0.25 | TP28/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042685 | S22-JI0042686 | S22-JI0042687 | S22-JI0042688 |
| Date Sampled | | | Jul 12, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 80 | 77 | 92 | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 74 | 79 | 103 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 69 | 73 | 91 | - |
| | | | | | | |
| % Moisture | 1 | % | 7.1 | 16 | 14 | 24 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | - | 2.4 | - |
| Cadmium | 0.4 | mg/kg | - | - | < 0.4 | - |
| Chromium | 5 | mg/kg | - | - | 22 | - |
| Copper | 5 | mg/kg | - | - | 24 | - |
| Lead | 5 | mg/kg | - | - | 14 | 24 |
| Mercury | 0.1 | mg/kg | - | - | < 0.1 | - |
| Nickel | 5 | mg/kg | - | - | 11 | - |
| Zinc | 5 | mg/kg | - | - | 73 | 65 |

| Client Sample ID | | | TP28/0.3-0.4 | TP11/0.0-0.1 | TP11/0.3-0.4 | [G01]TP20/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042689 | S22-JI0042691 | S22-JI0042692 | S22-JI0042694 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 79 | 80 | 61 | 86 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 103 | 106 | 110 | 104 |
| p-Terphenyl-d14 (surr.) | 1 | % | 125 | 93 | 112 | 145 |
| | | | | | | |
| % Moisture | 1 | % | 10 | 39 | 24 | 22 |

| Client Sample ID | | | TP28/0.3-0.4 | TP11/0.0-0.1 | TP11/0.3-0.4 | [G01]TP20/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042689 | S22-JI0042691 | S22-JI0042692 | S22-JI0042694 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| 4.4'-DDE | 0.05 | mg/kg | 0.13 | < 0.05 | < 0.05 | < 0.5 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 10 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.5 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | 0.13 | < 0.05 | < 0.05 | < 0.5 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | 0.13 | < 0.1 | < 0.1 | < 1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Dibutylchlorendate (surr.) | 1 | % | 113 | 79 | 100 | 150 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | 71 | 80 | 64 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 5 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |

| Client Sample ID | | | TP28/0.3-0.4 | TP11/0.0-0.1 | TP11/0.3-0.4 | [G01]TP20/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042689 | S22-JI0042691 | S22-JI0042692 | S22-JI0042694 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 5 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 5 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.5 |
| Triphenylphosphate (surr.) | 1 | % | 97 | 74 | 73 | 56 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 1 |
| Dibutylchlorendate (surr.) | 1 | % | 113 | 79 | 100 | 150 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | 71 | 80 | 64 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | 3.2 | < 2 | 7.8 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | 0.6 |
| Chromium | 5 | mg/kg | 19 | 15 | 10 | 19 |
| Copper | 5 | mg/kg | 6.8 | 13 | 9.3 | 15 |
| Lead | 5 | mg/kg | 20 | 47 | 7.2 | 51 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | 13 | 7.7 | 9.1 |
| Zinc | 5 | mg/kg | 23 | 83 | 16 | 220 |

| Client Sample ID | | | [G01]TP20/0.3-0.4 | TP20/0.9-1.0 | TP20/2.4-2.5 | TP13/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042695 | S22-JI0042697 | S22-JI0042698 | S22-JI0042699 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |

| Client Sample ID | | | [G01]TP20/0.3-0.4 | TP20/0.9-1.0 | TP20/2.4-2.5 | TP13/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042695 | S22-JI0042697 | S22-JI0042698 | S22-JI0042699 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 76 | 83 | 92 | 85 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 146 | 95 | 94 | 116 |
| p-Terphenyl-d14 (surr.) | 1 | % | 70 | 105 | 88 | 145 |
| | | | | | | |
| % Moisture | 1 | % | 19 | 18 | 16 | 15 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| a-HCH | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Aldrin | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| b-HCH | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| d-HCH | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Dieldrin | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |

| Client Sample ID | | | [G01]TP20/0.3-0.4 | TP20/0.9-1.0 | TP20/2.4-2.5 | TP13/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042695 | S22-JI0042697 | S22-JI0042698 | S22-JI0042699 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Endosulfan I | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Endosulfan II | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Endrin | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Endrin ketone | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Heptachlor | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Methoxychlor | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Toxaphene | 0.5 | mg/kg | < 10 | - | < 0.5 | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.5 | - | < 0.05 | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 150 | - | 149 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 74 | - | 80 | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Bolstar | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Coumaphos | 2 | mg/kg | < 5 | - | < 2 | - |
| Demeton-S | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Demeton-O | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Diazinon | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Dichlorvos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Dimethoate | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Disulfoton | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| EPN | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Ethion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Ethoprop | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Fenitrothion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Fensulfothion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Fenthion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Malathion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Merphos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Methyl parathion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Mevinphos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Monocrotophos | 2 | mg/kg | < 5 | - | < 2 | - |
| Naled | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Omethoate | 2 | mg/kg | < 5 | - | < 2 | - |
| Phorate | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Pyrazophos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Ronnel | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |

| Client Sample ID | | | [G01]TP20/0.3-0.4 | TP20/0.9-1.0 | TP20/2.4-2.5 | TP13/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042695 | S22-JI0042697 | S22-JI0042698 | S22-JI0042699 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Terbufos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Tokuthion | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Trichloronate | 0.2 | mg/kg | < 0.5 | - | < 0.2 | - |
| Triphenylphosphate (surr.) | 1 | % | 52 | - | 100 | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Aroclor-1221 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Aroclor-1232 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Aroclor-1242 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Aroclor-1248 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Aroclor-1254 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Aroclor-1260 | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Total PCB* | 0.1 | mg/kg | < 1 | - | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 150 | - | 149 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 74 | - | 80 | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 2.4 | 2.3 | 2.1 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | - |
| Chromium | 5 | mg/kg | 11 | 7.0 | 8.9 | - |
| Copper | 5 | mg/kg | 11 | 20 | 82 | - |
| Lead | 5 | mg/kg | 22 | 35 | 39 | - |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Nickel | 5 | mg/kg | 7.8 | 7.2 | 8.8 | - |
| Zinc | 5 | mg/kg | 62 | 100 | 130 | - |

| Client Sample ID | | | TP13/0.25-0.35 | TP13/0.4-0.5 | TP14/0.3-0.4 | TP19/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042700 | S22-JI0042701 | S22-JI0042702 | S22-JI0042706 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | - |

| Client Sample ID | | | TP13/0.25-0.35 | TP13/0.4-0.5 | TP14/0.3-0.4 | TP19/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042700 | S22-JI0042701 | S22-JI0042702 | S22-JI0042706 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 79 | 82 | 65 | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 112 | 108 | 96 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 100 | 137 | 84 | - |
| | | | | | | |
| % Moisture | 1 | % | 20 | 11 | 11 | 13 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |

| Client Sample ID | | | TP13/0.25-0.35 | TP13/0.4-0.5 | TP14/0.3-0.4 | TP19/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042700 | S22-JI0042701 | S22-JI0042702 | S22-JI0042706 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 98 | 148 | 70 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 86 | 125 | 87 | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Triphenylphosphate (surr.) | 1 | % | 105 | 128 | 94 | - |

| Client Sample ID | | | TP13/0.25-0.35 | TP13/0.4-0.5 | TP14/0.3-0.4 | TP19/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042700 | S22-JI0042701 | S22-JI0042702 | S22-JI0042706 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 98 | 148 | 70 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 86 | 125 | 87 | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | < 2 | 6.0 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | - |
| Chromium | 5 | mg/kg | < 5 | 20 | 21 | - |
| Copper | 5 | mg/kg | 6.3 | 6.0 | 22 | - |
| Lead | 5 | mg/kg | 7.6 | 6.4 | 41 | 24 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Nickel | 5 | mg/kg | 5.5 | 9.7 | 7.2 | - |
| Zinc | 5 | mg/kg | 19 | 29 | 110 | 53 |
| **Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.4-Trimethylbenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3.5-Trimethylbenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Chlorotoluene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | - | - | < 0.5 | - |
| Allyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Bromobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon disulfide | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | - | < 0.5 | - |

| Client Sample ID | | | TP13/0.25-0.35 | TP13/0.4-0.5 | TP14/0.3-0.4 | TP19/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042700 | S22-JI0042701 | S22-JI0042702 | S22-JI0042706 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Volatile Organics** | | | | | | |
| Chlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Ethylbenzene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Iodomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | - | - | < 0.5 | - |
| m&p-Xylenes | 0.2 | mg/kg | - | - | < 0.2 | - |
| Methylene Chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| o-Xylene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Styrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Toluene | 0.1 | mg/kg | - | - | < 0.1 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Xylenes - Total* | 0.3 | mg/kg | - | - | < 0.3 | - |
| Total MAH* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | - | 65 | - |
| Toluene-d8 (surr.) | 1 | % | - | - | 78 | - |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |

| Client Sample ID | | | TP13/0.25-0.35 | TP13/0.4-0.5 | TP14/0.3-0.4 | TP19/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042700 | S22-JI0042701 | S22-JI0042702 | S22-JI0042706 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Halogenated Volatile Organics** | | | | | | |
| Chloroform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Iodomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Methylene Chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Toluene-d8 (surr.) | 1 | % | - | - | 78 | - |

| Client Sample ID | | | TP19/0.3-0.4 | TP19/1.0-1.1 | TP19/1.2-1.3 | TP16/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042708 | S22-JI0042711 | S22-JI0042712 | S22-JI0042713 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | - | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | - | - |
| TRH C15-C28 | 50 | mg/kg | 72 | 76 | - | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | - | - |
| TRH C10-C36 (Total) | 50 | mg/kg | 72 | 76 | - | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | - | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | - | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | - | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | - | - |
| TRH >C16-C34 | 100 | mg/kg | 120 | 120 | - | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | - | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | 120 | 120 | - | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 97 | 53 | - | - |

| Client Sample ID | | | TP19/0.3-0.4 | TP19/1.0-1.1 | TP19/1.2-1.3 | TP16/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042708 | S22-JI0042711 | S22-JI0042712 | S22-JI0042713 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | 0.6 | 0.7 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | 0.7 | 0.8 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | 0.8 | 0.7 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | 2.1 | 2.7 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 91 | 98 | 107 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 96 | 93 | 107 | - |
| | | | | | | |
| % Moisture | 1 | % | 16 | 14 | 11 | 10 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | - | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | - | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | - | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |

| Client Sample ID | | | TP19/0.3-0.4 | TP19/1.0-1.1 | TP19/1.2-1.3 | TP16/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042708 | S22-JI0042711 | S22-JI0042712 | S22-JI0042713 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 91 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 87 | - | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Coumaphos | 2 | mg/kg | < 2 | - | - | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | - |
| Omethoate | 2 | mg/kg | < 2 | - | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Triphenylphosphate (surr.) | 1 | % | 94 | - | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 91 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 87 | - | - | - |

| Client Sample ID | | | TP19/0.3-0.4 | TP19/1.0-1.1 | TP19/1.2-1.3 | TP16/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042708 | S22-JI0042711 | S22-JI0042712 | S22-JI0042713 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 3.2 | 2.6 | - | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | - | - |
| Chromium | 5 | mg/kg | 23 | 19 | - | - |
| Copper | 5 | mg/kg | 14 | 8.2 | - | - |
| Lead | 5 | mg/kg | 68 | 15 | - | 11 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Nickel | 5 | mg/kg | 12 | 9.6 | - | - |
| Zinc | 5 | mg/kg | 88 | 39 | - | 40 |

| Client Sample ID | | | TP16/0.3-0.4 | TP16/0.7-0.8 | TP15/0.0-0.1 | TP15/0.2-0.3 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042714 | S22-JI0042716 | S22-JI0042717 | S22-JI0042718 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 102 | 72 | 93 | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |

| Client Sample ID | | | TP16/0.3-0.4 | TP16/0.7-0.8 | TP15/0.0-0.1 | TP15/0.2-0.3 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042714 | S22-JI0042716 | S22-JI0042717 | S22-JI0042718 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 105 | 101 | 102 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 101 | 99 | 88 | - |
| | | | | | | |
| % Moisture | 1 | % | 16 | 10 | 13 | - |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | - | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | - | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | - | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 90 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 84 | - | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Coumaphos | 2 | mg/kg | < 2 | - | - | - |

| Client Sample ID | | | TP16/0.3-0.4 | TP16/0.7-0.8 | TP15/0.0-0.1 | TP15/0.2-0.3 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042714 | S22-JI0042716 | S22-JI0042717 | S22-JI0042718 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | - |
| Omethoate | 2 | mg/kg | < 2 | - | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Triphenylphosphate (surr.) | 1 | % | 108 | - | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 90 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 84 | - | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 4.3 | 2.8 | - | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | - | - |
| Chromium | 5 | mg/kg | 20 | 37 | - | - |
| Copper | 5 | mg/kg | 18 | 13 | - | - |
| Lead | 5 | mg/kg | 46 | 14 | 32 | - |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Nickel | 5 | mg/kg | 12 | 17 | - | - |
| Zinc | 5 | mg/kg | 79 | 50 | 120 | - |

| Client Sample ID | | | TP16/0.3-0.4 | TP16/0.7-0.8 | TP15/0.0-0.1 | TP15/0.2-0.3 ENM |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **S22-JI0042714** | **S22-JI0042716** | **S22-JI0042717** | **S22-JI0042718** |
| **Date Sampled** | | | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | - | 6.5 |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | - | < 0.1 |
| Glass* | 0.1 | % | - | - | - | < 0.1 |
| Asphalt* | 0.1 | % | - | - | - | < 0.1 |
| Stone* | 0.1 | % | - | - | - | 1.6 |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | - | < 0.1 |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | - | < 0.1 |
| Clay lumps and other friable material* | 0.1 | % | - | - | - | 98 |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | - | < 0.05 |
| Plastic* | 0.05 | % | - | - | - | < 0.05 |
| Bitumen* | 0.05 | % | - | - | - | < 0.05 |
| Paper* | 0.05 | % | - | - | - | < 0.05 |
| Cloth* | 0.05 | % | - | - | - | < 0.05 |
| Paint* | 0.05 | % | - | - | - | < 0.05 |
| Wood* | 0.05 | % | - | - | - | < 0.05 |
| Vegetable matter* | 0.05 | % | - | - | - | 0.28 |

| Client Sample ID | | | TP15/0.3-0.4 | TP18/0.0-0.1 | TP18/0.3-0.4 | TP18/0.4-0.5 ENM |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **S22-JI0042719** | **S22-JI0042721** | **S22-JI0042722** | **S22-JI0042723** |
| **Date Sampled** | | | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | 63 | < 50 | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | 63 | < 50 | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | 110 | < 100 | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | 110 | < 100 | < 100 | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 77 | 90 | 67 | - |

| Client Sample ID | | | TP15/0.3-0.4 | TP18/0.0-0.1 | TP18/0.3-0.4 | TP18/0.4-0.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042719 | S22-JI0042721 | S22-JI0042722 | S22-JI0042723 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 80 | 64 | 77 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 78 | 73 | 82 | - |
| | | | | | | |
| % Moisture | 1 | % | 13 | 9.9 | 21 | - |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | 19 | - | 16 | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | 7.9 | - | 6.7 | - |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Endrin | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |

| Client Sample ID | | | TP15/0.3-0.4 | TP18/0.0-0.1 | TP18/0.3-0.4 | TP18/0.4-0.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042719 | S22-JI0042721 | S22-JI0042722 | S22-JI0042723 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | < 0.05 | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 70 | - | 85 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 90 | - | 96 | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Coumaphos | 2 | mg/kg | < 2 | - | < 2 | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | < 2 | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Omethoate | 2 | mg/kg | < 2 | - | < 2 | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Triphenylphosphate (surr.) | 1 | % | 72 | - | 72 | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |

| Client Sample ID | | | TP15/0.3-0.4 | TP18/0.0-0.1 | TP18/0.3-0.4 | TP18/0.4-0.5 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042719 | S22-JI0042721 | S22-JI0042722 | S22-JI0042723 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polychlorinated Biphenyls** | | | | | | |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 70 | - | 85 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 90 | - | 96 | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 2.0 | - | 3.1 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | - | < 0.4 | - |
| Chromium | 5 | mg/kg | 22 | - | 14 | - |
| Copper | 5 | mg/kg | 12 | - | 8.8 | - |
| Lead | 5 | mg/kg | 30 | 10 | 38 | - |
| Mercury | 0.1 | mg/kg | < 0.1 | - | 0.2 | - |
| Nickel | 5 | mg/kg | 11 | - | 8.2 | - |
| Zinc | 5 | mg/kg | 190 | 35 | 63 | - |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | - | 6.5 |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | - | < 0.1 |
| Glass* | 0.1 | % | - | - | - | < 0.1 |
| Asphalt* | 0.1 | % | - | - | - | < 0.1 |
| Stone* | 0.1 | % | - | - | - | 0.5 |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | - | < 0.1 |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | - | < 0.1 |
| Clay lumps and other friable material* | 0.1 | % | - | - | - | 99 |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | - | < 0.05 |
| Plastic* | 0.05 | % | - | - | - | < 0.05 |
| Bitumen* | 0.05 | % | - | - | - | < 0.05 |
| Paper* | 0.05 | % | - | - | - | < 0.05 |
| Cloth* | 0.05 | % | - | - | - | < 0.05 |
| Paint* | 0.05 | % | - | - | - | < 0.05 |
| Wood* | 0.05 | % | - | - | - | < 0.05 |
| Vegetable matter* | 0.05 | % | - | - | - | 0.05 |

| Client Sample ID | | | TP18/0.5-0.6 | TP17/0.0-0.1 | TP17/0.0-0.2 ENM | TP23/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042724 | S22-JI0042725 | S22-JI0042727 | S22-JI0042728 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | < 20 | - | - |
| TRH C10-C14 | 20 | mg/kg | - | < 20 | - | - |
| TRH C15-C28 | 50 | mg/kg | - | < 50 | - | - |
| TRH C29-C36 | 50 | mg/kg | - | < 50 | - | - |
| TRH C10-C36 (Total) | 50 | mg/kg | - | < 50 | - | - |
| Naphthalene[N02] | 0.5 | mg/kg | - | < 0.5 | - | - |
| TRH C6-C10 | 20 | mg/kg | - | < 20 | - | - |

| Client Sample ID | | | TP18/0.5-0.6 | TP17/0.0-0.1 | TP17/0.0-0.2 ENM | TP23/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042724 | S22-JI0042725 | S22-JI0042727 | S22-JI0042728 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | < 20 | - | - |
| TRH >C10-C16 | 50 | mg/kg | - | < 50 | - | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | - | < 50 | - | - |
| TRH >C16-C34 | 100 | mg/kg | - | < 100 | - | - |
| TRH >C34-C40 | 100 | mg/kg | - | < 100 | - | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | < 100 | - | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Toluene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Ethylbenzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| m&p-Xylenes | 0.2 | mg/kg | - | < 0.2 | - | - |
| o-Xylene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Xylenes - Total* | 0.3 | mg/kg | - | < 0.3 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 57 | - | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 85 | 57 | - | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 92 | 65 | - | - |
| | | | | | | |
| % Moisture | 1 | % | 10 | 14 | - | 3.8 |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | - | 17 | - | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | - | 7.2 | - | - |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | < 0.1 | - | - |
| 4.4'-DDD | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4.4'-DDE | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4.4'-DDT | 0.05 | mg/kg | - | < 0.05 | - | - |
| a-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| Aldrin | 0.05 | mg/kg | - | < 0.05 | - | - |

| Client Sample ID | | | TP18/0.5-0.6 | TP17/0.0-0.1 | TP17/0.0-0.2 ENM | TP23/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042724 | S22-JI0042725 | S22-JI0042727 | S22-JI0042728 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| b-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| d-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| Dieldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan I | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan II | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin aldehyde | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin ketone | 0.05 | mg/kg | - | < 0.05 | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | - | < 0.05 | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | - | < 0.05 | - | - |
| Methoxychlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Toxaphene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | - | 69 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 73 | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Bolstar | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Coumaphos | 2 | mg/kg | - | < 2 | - | - |
| Demeton-S | 0.2 | mg/kg | - | < 0.2 | - | - |
| Demeton-O | 0.2 | mg/kg | - | < 0.2 | - | - |
| Diazinon | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dichlorvos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dimethoate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Disulfoton | 0.2 | mg/kg | - | < 0.2 | - | - |
| EPN | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethoprop | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenitrothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fensulfothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Malathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Merphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Methyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Mevinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Monocrotophos | 2 | mg/kg | - | < 2 | - | - |
| Naled | 0.2 | mg/kg | - | < 0.2 | - | - |
| Omethoate | 2 | mg/kg | - | < 2 | - | - |
| Phorate | 0.2 | mg/kg | - | < 0.2 | - | - |

| Client Sample ID | | | TP18/0.5-0.6 | TP17/0.0-0.1 | TP17/0.0-0.2 ENM | TP23/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042724 | S22-JI0042725 | S22-JI0042727 | S22-JI0042728 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Pirimiphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pyrazophos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ronnel | 0.2 | mg/kg | - | < 0.2 | - | - |
| Terbufos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tokuthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Trichloronate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Triphenylphosphate (surr.) | 1 | % | - | 55 | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1221 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1232 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1242 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1248 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1254 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1260 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Total PCB* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | - | 69 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 73 | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | < 2 | - | - |
| Cadmium | 0.4 | mg/kg | - | < 0.4 | - | - |
| Chromium | 5 | mg/kg | - | 19 | - | - |
| Copper | 5 | mg/kg | - | 19 | - | - |
| Lead | 5 | mg/kg | - | 27 | - | 7.4 |
| Mercury | 0.1 | mg/kg | - | < 0.1 | - | - |
| Nickel | 5 | mg/kg | - | 10 | - | - |
| Zinc | 5 | mg/kg | - | 63 | - | 16 |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | 6.5 | - |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | < 0.1 | - |
| Glass* | 0.1 | % | - | - | < 0.1 | - |
| Asphalt* | 0.1 | % | - | - | < 0.1 | - |
| Stone* | 0.1 | % | - | - | 0.5 | - |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | < 0.1 | - |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | < 0.1 | - |
| Clay lumps and other friable material* | 0.1 | % | - | - | 99 | - |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | < 0.05 | - |
| Plastic* | 0.05 | % | - | - | < 0.05 | - |
| Bitumen* | 0.05 | % | - | - | < 0.05 | - |
| Paper* | 0.05 | % | - | - | < 0.05 | - |
| Cloth* | 0.05 | % | - | - | < 0.05 | - |
| Paint* | 0.05 | % | - | - | < 0.05 | - |
| Wood* | 0.05 | % | - | - | < 0.05 | - |
| Vegetable matter* | 0.05 | % | - | - | 0.15 | - |

| Client Sample ID | | | TP23/0.20-0.25 | [G01]TP23/0.3-0.4 | TP23/0.3-0.4 ENM | TP24/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042730 | S22-JI0042731 | S22-JI0042733 | S22-JI0042734 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | - | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | - | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | 120 | - | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | 56 | - | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | 176 | - | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | - | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | - | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | - | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | - | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | - | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | 180 | - | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | - | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | 180 | - | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | - | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | - | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | - | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 54 | 70 | - | 68 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | 3.9 | - | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 3.9 | - | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 3.9 | - | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | 2.8 | - | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | 2.5 | - | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | 2.4 | - | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 2 | - | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | 2.3 | - | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | 3.2 | - | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | 0.5 | - | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 10 | - | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | 1.3 | - | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | - | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 5 | - | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 10 | - | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | 15 | - | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | INT | 132 | - | 73 |
| p-Terphenyl-d14 (surr.) | 1 | % | 51 | 149 | - | 83 |
| | | | | | | |
| % Moisture | 1 | % | 18 | 6.8 | - | 20 |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | - | 78 | - | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | - | 9.3 | - | - |

| Client Sample ID | | | TP23/0.20-0.25 | [G01]TP23/0.3-0.4 | TP23/0.3-0.4 ENM | TP24/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042730 | S22-JI0042731 | S22-JI0042733 | S22-JI0042734 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| a-HCH | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Aldrin | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| b-HCH | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| d-HCH | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Dieldrin | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Endrin | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Heptachlor | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Toxaphene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | < 0.05 | - | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | 134 | - | 102 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 147 | - | 90 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Bolstar | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Coumaphos | 2 | mg/kg | - | < 2 | - | < 2 |
| Demeton-S | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Demeton-O | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Diazinon | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Dimethoate | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Disulfoton | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| EPN | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Ethion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Ethoprop | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Fenthion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Malathion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Merphos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |

| Client Sample ID | | | TP23/0.20-0.25 | [G01]TP23/0.3-0.4 | TP23/0.3-0.4 ENM | TP24/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042730 | S22-JI0042731 | S22-JI0042733 | S22-JI0042734 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Mevinphos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Monocrotophos | 2 | mg/kg | - | < 2 | - | < 2 |
| Naled | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Omethoate | 2 | mg/kg | - | < 2 | - | < 2 |
| Phorate | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Ronnel | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Terbufos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Tokuthion | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Trichloronate | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | - | 147 | - | 80 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Total PCB* | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | 134 | - | 102 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 147 | - | 90 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | < 2 | - | 3.5 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | - | < 0.4 |
| Chromium | 5 | mg/kg | 13 | 15 | - | 47 |
| Copper | 5 | mg/kg | 8.9 | 6.3 | - | 21 |
| Lead | 5 | mg/kg | 13 | 35 | - | 16 |
| Mercury | 0.1 | mg/kg | 0.2 | 0.9 | - | < 0.1 |
| Nickel | 5 | mg/kg | 6.6 | 7.6 | - | 21 |
| Zinc | 5 | mg/kg | 24 | 60 | - | 60 |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | 7.6 | - |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | < 0.1 | - |
| Glass* | 0.1 | % | - | - | < 0.1 | - |
| Asphalt* | 0.1 | % | - | - | 0.4 | - |
| Stone* | 0.1 | % | - | - | 15 | - |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | < 0.1 | - |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | < 0.1 | - |
| Clay lumps and other friable material* | 0.1 | % | - | - | 84 | - |

| Client Sample ID | | | TP23/0.20-0.25 | [G01]TP23/0.3-0.4 | TP23/0.3-0.4 ENM | TP24/0.0-0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042730 | S22-JI0042731 | S22-JI0042733 | S22-JI0042734 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | < 0.05 | - |
| Plastic* | 0.05 | % | - | - | < 0.05 | - |
| Bitumen* | 0.05 | % | - | - | < 0.05 | - |
| Paper* | 0.05 | % | - | - | < 0.05 | - |
| Cloth* | 0.05 | % | - | - | < 0.05 | - |
| Paint* | 0.05 | % | - | - | < 0.05 | - |
| Wood* | 0.05 | % | - | - | < 0.05 | - |
| Vegetable matter* | 0.05 | % | - | - | < 0.05 | - |

| Client Sample ID | | | TP24/0.3-0.4 | TP27/0.0-0.1 | TP27/0.3-0.4 | TP27/0.3-0.4 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042735 | S22-JI0042738 | S22-JI0042739 | S22-JI0042741 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | - | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | - | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | < 50 | - | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | - | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | - | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | - | < 20 | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | - | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | - | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | - | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | < 100 | - | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | - | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | - | < 100 | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | - | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 64 | - | 56 | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | - | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | - | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |

| Client Sample ID | | | TP24/0.3-0.4 | TP27/0.0-0.1 | TP27/0.3-0.4 | TP27/0.3-0.4 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042735 | S22-JI0042738 | S22-JI0042739 | S22-JI0042741 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 74 | - | 73 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 81 | - | 80 | - |
| | | | | | | |
| % Moisture | 1 | % | 15 | 22 | 13 | - |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | < 10 | - | 43 | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | 7.1 | - | 8.9 | - |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | - | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | - | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | - | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 104 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 90 | - | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | - |

| Client Sample ID | | | TP24/0.3-0.4 | TP27/0.0-0.1 | TP27/0.3-0.4 | TP27/0.3-0.4 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042735 | S22-JI0042738 | S22-JI0042739 | S22-JI0042741 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Coumaphos | 2 | mg/kg | < 2 | - | - | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | - |
| Omethoate | 2 | mg/kg | < 2 | - | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Triphenylphosphate (surr.) | 1 | % | 84 | - | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 104 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 90 | - | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 2.7 | - | < 2 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | - | < 0.4 | - |
| Chromium | 5 | mg/kg | 55 | - | 20 | - |
| Copper | 5 | mg/kg | 21 | - | 11 | - |
| Lead | 5 | mg/kg | 13 | 53 | 35 | - |
| Mercury | 0.1 | mg/kg | < 0.1 | - | 0.5 | - |

| Client Sample ID | | | TP24/0.3-0.4 | TP27/0.0-0.1 | TP27/0.3-0.4 | TP27/0.3-0.4 ENM |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042735 | S22-JI0042738 | S22-JI0042739 | S22-JI0042741 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Nickel | 5 | mg/kg | 23 | - | 9.9 | - |
| Zinc | 5 | mg/kg | 60 | 140 | 77 | - |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | - | 7.3 |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | - | < 0.1 |
| Glass* | 0.1 | % | - | - | - | < 0.1 |
| Asphalt* | 0.1 | % | - | - | - | < 0.1 |
| Stone* | 0.1 | % | - | - | - | 1.8 |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | - | < 0.1 |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | - | < 0.1 |
| Clay lumps and other friable material* | 0.1 | % | - | - | - | 98 |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | - | < 0.05 |
| Plastic* | 0.05 | % | - | - | - | < 0.05 |
| Bitumen* | 0.05 | % | - | - | - | < 0.05 |
| Paper* | 0.05 | % | - | - | - | < 0.05 |
| Cloth* | 0.05 | % | - | - | - | < 0.05 |
| Paint* | 0.05 | % | - | - | - | < 0.05 |
| Wood* | 0.05 | % | - | - | - | < 0.05 |
| Vegetable matter* | 0.05 | % | - | - | - | < 0.05 |

| Client Sample ID | | | TP26/0.0-0.1 | [G01]TP26/0.3-0.4 | TP26/0.3-0.4 ENM | TP25/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042742 | S22-JI0042743 | S22-JI0042744 | S22-JI0042745 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH C10-C14 | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH C15-C28 | 50 | mg/kg | - | 51 | - | < 50 |
| TRH C29-C36 | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | - | 51 | - | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH >C10-C16 | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH >C16-C34 | 100 | mg/kg | - | < 100 | - | < 100 |
| TRH >C34-C40 | 100 | mg/kg | - | < 100 | - | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | < 100 | - | < 100 |

| Client Sample ID | | | TP26/0.0-0.1 | [G01]TP26/0.3-0.4 | TP26/0.3-0.4 ENM | TP25/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042742 | S22-JI0042743 | S22-JI0042744 | S22-JI0042745 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Toluene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| o-Xylene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | - | < 0.3 | - | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 82 | - | 87 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 0.6 | - | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 1.2 | - | 1.2 |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Chrysene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | < 2 | - | < 0.5 |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | < 1 | - | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | < 2 | - | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | < 2 | - | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 79 | - | 53 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 78 | - | 57 |
| | | | | | | |
| % Moisture | 1 | % | 24 | 16 | - | 16 |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | - | 93 | - | 10 |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | - | 9.1 | - | 7.0 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | - | - | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | - | - | - | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | - | - | - | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | - | - | - | < 0.05 |
| a-HCH | 0.05 | mg/kg | - | - | - | < 0.05 |
| Aldrin | 0.05 | mg/kg | - | - | - | < 0.05 |
| b-HCH | 0.05 | mg/kg | - | - | - | < 0.05 |
| d-HCH | 0.05 | mg/kg | - | - | - | < 0.05 |
| Dieldrin | 0.05 | mg/kg | - | - | - | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | - | - | - | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | - | - | - | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | - | - | - | < 0.05 |
| Endrin | 0.05 | mg/kg | - | - | - | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | - | - | - | < 0.05 |

| Client Sample ID | | | TP26/0.0-0.1 | [G01]TP26/0.3-0.4 | TP26/0.3-0.4 ENM | TP25/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042742 | S22-JI0042743 | S22-JI0042744 | S22-JI0042745 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Endrin ketone | 0.05 | mg/kg | - | - | - | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | - | - | - | < 0.05 |
| Heptachlor | 0.05 | mg/kg | - | - | - | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | - | - | - | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | - | - | - | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | - | - | - | < 0.05 |
| Toxaphene | 0.5 | mg/kg | - | - | - | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | - | - | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | - | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | - | - | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | - | - | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | - | - | 75 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | - | 67 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | - | - | < 0.2 |
| Bolstar | 0.2 | mg/kg | - | - | - | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | - | - | < 0.2 |
| Coumaphos | 2 | mg/kg | - | - | - | < 2 |
| Demeton-S | 0.2 | mg/kg | - | - | - | < 0.2 |
| Demeton-O | 0.2 | mg/kg | - | - | - | < 0.2 |
| Diazinon | 0.2 | mg/kg | - | - | - | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Dimethoate | 0.2 | mg/kg | - | - | - | < 0.2 |
| Disulfoton | 0.2 | mg/kg | - | - | - | < 0.2 |
| EPN | 0.2 | mg/kg | - | - | - | < 0.2 |
| Ethion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Ethoprop | 0.2 | mg/kg | - | - | - | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Fenthion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Malathion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Merphos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Mevinphos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Monocrotophos | 2 | mg/kg | - | - | - | < 2 |
| Naled | 0.2 | mg/kg | - | - | - | < 0.2 |
| Omethoate | 2 | mg/kg | - | - | - | < 2 |
| Phorate | 0.2 | mg/kg | - | - | - | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | - | - | - | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Ronnel | 0.2 | mg/kg | - | - | - | < 0.2 |
| Terbufos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | - | - | - | < 0.2 |
| Tokuthion | 0.2 | mg/kg | - | - | - | < 0.2 |
| Trichloronate | 0.2 | mg/kg | - | - | - | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | - | - | - | 57 |

| Client Sample ID | | | TP26/0.0-0.1 | [G01]TP26/0.3-0.4 | TP26/0.3-0.4 ENM | TP25/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042742 | S22-JI0042743 | S22-JI0042744 | S22-JI0042745 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | - | - | - | < 0.1 |
| Total PCB* | 0.1 | mg/kg | - | - | - | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | - | - | 75 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | - | 67 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | 2.0 | - | < 2 |
| Cadmium | 0.4 | mg/kg | - | < 0.4 | - | < 0.4 |
| Chromium | 5 | mg/kg | - | 20 | - | 24 |
| Copper | 5 | mg/kg | - | 13 | - | 17 |
| Lead | 5 | mg/kg | 100 | 370 | - | 20 |
| Mercury | 0.1 | mg/kg | - | 0.4 | - | < 0.1 |
| Nickel | 5 | mg/kg | - | 9.6 | - | 12 |
| Zinc | 5 | mg/kg | 110 | 140 | - | 47 |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | - | - | 5.6 | - |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | - | - | < 0.1 | - |
| Glass* | 0.1 | % | - | - | < 0.1 | - |
| Asphalt* | 0.1 | % | - | - | < 0.1 | - |
| Stone* | 0.1 | % | - | - | 17 | - |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | - | - | < 0.1 | - |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | - | - | < 0.1 | - |
| Clay lumps and other friable material* | 0.1 | % | - | - | 83 | - |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | - | - | < 0.05 | - |
| Plastic* | 0.05 | % | - | - | < 0.05 | - |
| Bitumen* | 0.05 | % | - | - | < 0.05 | - |
| Paper* | 0.05 | % | - | - | < 0.05 | - |
| Cloth* | 0.05 | % | - | - | < 0.05 | - |
| Paint* | 0.05 | % | - | - | < 0.05 | - |
| Wood* | 0.05 | % | - | - | < 0.05 | - |
| Vegetable matter* | 0.05 | % | - | - | 0.07 | - |

| Client Sample ID | | | TP25/0.3-0.4 ENM | TP25/0.5-0.6 | TP21/0.0-0.1 | TP21/0.2-0.3 |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **S22-JI0042746** | **S22-JI0042747** | **S22-JI0042748** | **S22-JI0042749** |
| **Date Sampled** | | | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** | **Jul 13, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH C10-C14 | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH C15-C28 | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH C29-C36 | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | - | < 50 | - | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | < 20 | - | < 20 |
| TRH >C10-C16 | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | - | < 50 | - | < 50 |
| TRH >C16-C34 | 100 | mg/kg | - | < 100 | - | < 100 |
| TRH >C34-C40 | 100 | mg/kg | - | < 100 | - | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | < 100 | - | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Toluene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | - | < 0.2 | - | < 0.2 |
| o-Xylene | 0.1 | mg/kg | - | < 0.1 | - | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | - | < 0.3 | - | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 72 | - | 84 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 0.6 | - | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 1.2 | - | 1.2 |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Chrysene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 71 | - | 116 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 76 | - | 108 |
| | | | | | | |
| % Moisture | 1 | % | - | 26 | 4.5 | 6.1 |

| Client Sample ID | | | TP25/0.3-0.4 ENM | TP25/0.5-0.6 | TP21/0.0-0.1 | TP21/0.2-0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042746 | S22-JI0042747 | S22-JI0042748 | S22-JI0042749 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | < 0.1 | - | - |
| 4.4'-DDD | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4.4'-DDE | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4.4'-DDT | 0.05 | mg/kg | - | < 0.05 | - | - |
| a-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| Aldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| b-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| d-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| Dieldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan I | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan II | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin aldehyde | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin ketone | 0.05 | mg/kg | - | < 0.05 | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | - | < 0.05 | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | - | < 0.05 | - | - |
| Methoxychlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Toxaphene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | - | 103 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 86 | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Bolstar | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Coumaphos | 2 | mg/kg | - | < 2 | - | - |
| Demeton-S | 0.2 | mg/kg | - | < 0.2 | - | - |
| Demeton-O | 0.2 | mg/kg | - | < 0.2 | - | - |
| Diazinon | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dichlorvos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dimethoate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Disulfoton | 0.2 | mg/kg | - | < 0.2 | - | - |
| EPN | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethoprop | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenitrothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fensulfothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Malathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Merphos | 0.2 | mg/kg | - | < 0.2 | - | - |

| Client Sample ID | | | TP25/0.3-0.4 ENM | TP25/0.5-0.6 | TP21/0.0-0.1 | TP21/0.2-0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042746 | S22-JI0042747 | S22-JI0042748 | S22-JI0042749 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Mevinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Monocrotophos | 2 | mg/kg | - | < 2 | - | - |
| Naled | 0.2 | mg/kg | - | < 0.2 | - | - |
| Omethoate | 2 | mg/kg | - | < 2 | - | - |
| Phorate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pyrazophos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ronnel | 0.2 | mg/kg | - | < 0.2 | - | - |
| Terbufos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tokuthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Trichloronate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Triphenylphosphate (surr.) | 1 | % | - | 81 | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1221 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1232 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1242 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1248 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1254 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1260 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Total PCB* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | - | 103 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 86 | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | < 2 | - | 2.1 |
| Cadmium | 0.4 | mg/kg | - | < 0.4 | - | < 0.4 |
| Chromium | 5 | mg/kg | - | 9.6 | - | 12 |
| Copper | 5 | mg/kg | - | 9.4 | - | 5.6 |
| Lead | 5 | mg/kg | - | 260 | 11 | 11 |
| Mercury | 0.1 | mg/kg | - | 0.4 | - | < 0.1 |
| Nickel | 5 | mg/kg | - | 6.3 | - | < 5 |
| Zinc | 5 | mg/kg | - | 57 | 13 | 14 |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | 6.6 | - | - | - |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | < 0.1 | - | - | - |
| Glass* | 0.1 | % | < 0.1 | - | - | - |
| Asphalt* | 0.1 | % | < 0.1 | - | - | - |
| Stone* | 0.1 | % | 0.4 | - | - | - |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | < 0.1 | - | - | - |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | < 0.1 | - | - | - |
| Clay lumps and other friable material* | 0.1 | % | 99 | - | - | - |

| Client Sample ID | | | TP25/0.3-0.4 ENM | TP25/0.5-0.6 | TP21/0.0-0.1 | TP21/0.2-0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042746 | S22-JI0042747 | S22-JI0042748 | S22-JI0042749 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | < 0.05 | - | - | - |
| Plastic* | 0.05 | % | < 0.05 | - | - | - |
| Bitumen* | 0.05 | % | < 0.05 | - | - | - |
| Paper* | 0.05 | % | < 0.05 | - | - | - |
| Cloth* | 0.05 | % | < 0.05 | - | - | - |
| Paint* | 0.05 | % | < 0.05 | - | - | - |
| Wood* | 0.05 | % | < 0.05 | - | - | - |
| Vegetable matter* | 0.05 | % | 0.35 | - | - | - |

| Client Sample ID | | | TP21/0.2-0.3 ENM | TP22/0.0-0.1 | TP22/0.0-0.1 ENM | TP22/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042751 | S22-JI0042752 | S22-JI0042754 | S22-JI0042755 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | < 20 | - | - |
| TRH C10-C14 | 20 | mg/kg | - | < 20 | - | - |
| TRH C15-C28 | 50 | mg/kg | - | < 50 | - | - |
| TRH C29-C36 | 50 | mg/kg | - | < 50 | - | - |
| TRH C10-C36 (Total) | 50 | mg/kg | - | < 50 | - | - |
| Naphthalene[N02] | 0.5 | mg/kg | - | < 0.5 | - | - |
| TRH C6-C10 | 20 | mg/kg | - | < 20 | - | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | < 20 | - | - |
| TRH >C10-C16 | 50 | mg/kg | - | < 50 | - | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | - | < 50 | - | - |
| TRH >C16-C34 | 100 | mg/kg | - | < 100 | - | - |
| TRH >C34-C40 | 100 | mg/kg | - | < 100 | - | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | < 100 | - | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Toluene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Ethylbenzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| m&p-Xylenes | 0.2 | mg/kg | - | < 0.2 | - | - |
| o-Xylene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Xylenes - Total* | 0.3 | mg/kg | - | < 0.3 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 108 | - | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 0.6 | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 1.2 | - | - |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Anthracene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benz(a)anthracene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(a)pyrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | < 0.5 | - | - |

| Client Sample ID | | | TP21/0.2-0.3 ENM | TP22/0.0-0.1 | TP22/0.0-0.1 ENM | TP22/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042751 | S22-JI0042752 | S22-JI0042754 | S22-JI0042755 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chrysene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Phenanthrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Pyrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Total PAH* | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 54 | - | - |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 57 | - | - |
| | | | | | | |
| % Moisture | 1 | % | - | 6.1 | - | 4.0 |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | - | 49 | - | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | - | 8.1 | - | - |
| Coal Tar in Asphalt*[M11] | | - | - | - | - | Present |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | < 0.1 | - | - |
| 4.4'-DDD | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4.4'-DDE | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4.4'-DDT | 0.05 | mg/kg | - | < 0.05 | - | - |
| a-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| Aldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| b-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| d-HCH | 0.05 | mg/kg | - | < 0.05 | - | - |
| Dieldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan I | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan II | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin aldehyde | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin ketone | 0.05 | mg/kg | - | < 0.05 | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | - | < 0.05 | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | - | < 0.05 | - | - |
| Methoxychlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Toxaphene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | - | 74 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 67 | - | - |

| Client Sample ID | | | TP21/0.2-0.3 ENM | TP22/0.0-0.1 | TP22/0.0-0.1 ENM | TP22/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042751 | S22-JI0042752 | S22-JI0042754 | S22-JI0042755 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Bolstar | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Coumaphos | 2 | mg/kg | - | < 2 | - | - |
| Demeton-S | 0.2 | mg/kg | - | < 0.2 | - | - |
| Demeton-O | 0.2 | mg/kg | - | < 0.2 | - | - |
| Diazinon | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dichlorvos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dimethoate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Disulfoton | 0.2 | mg/kg | - | < 0.2 | - | - |
| EPN | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethoprop | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenitrothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fensulfothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Malathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Merphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Methyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Mevinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Monocrotophos | 2 | mg/kg | - | < 2 | - | - |
| Naled | 0.2 | mg/kg | - | < 0.2 | - | - |
| Omethoate | 2 | mg/kg | - | < 2 | - | - |
| Phorate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pyrazophos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ronnel | 0.2 | mg/kg | - | < 0.2 | - | - |
| Terbufos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tokuthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Trichloronate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Triphenylphosphate (surr.) | 1 | % | - | 58 | - | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1221 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1232 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1242 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1248 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1254 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1260 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Total PCB* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | - | 74 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 67 | - | - |

| Client Sample ID | | | TP21/0.2-0.3 ENM | TP22/0.0-0.1 | TP22/0.0-0.1 ENM | TP22/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042751 | S22-JI0042752 | S22-JI0042754 | S22-JI0042755 |
| Date Sampled | | | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | 5.1 | - | - |
| Cadmium | 0.4 | mg/kg | - | < 0.4 | - | - |
| Chromium | 5 | mg/kg | - | 29 | - | - |
| Copper | 5 | mg/kg | - | 7.9 | - | - |
| Lead | 5 | mg/kg | - | 130 | - | - |
| Mercury | 0.1 | mg/kg | - | < 0.1 | - | - |
| Nickel | 5 | mg/kg | - | 6.4 | - | - |
| Zinc | 5 | mg/kg | - | 9.8 | - | - |
| **Foreign Materials - ENM** | | | | | | |
| Initial Weight | 0.01 | kg | 7.3 | - | 8.3 | - |
| **Foreign Material - Type I** | | | | | | |
| Metal* | 0.1 | % | < 0.1 | - | < 0.1 | - |
| Glass* | 0.1 | % | < 0.1 | - | < 0.1 | - |
| Asphalt* | 0.1 | % | 0.8 | - | 0.2 | - |
| Stone* | 0.1 | % | 25 | - | 32 | - |
| Ceramic and slag (other than blast furnace slag)* | 0.1 | % | < 0.1 | - | < 0.1 | - |
| **Foreign Material - Type II** | | | | | | |
| Plaster* | 0.1 | % | < 0.1 | - | < 0.1 | - |
| Clay lumps and other friable material* | 0.1 | % | 74 | - | 68 | - |
| **Foreign Material - Type III** | | | | | | |
| Rubber* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Plastic* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Bitumen* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Paper* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Cloth* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Paint* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Wood* | 0.05 | % | < 0.05 | - | < 0.05 | - |
| Vegetable matter* | 0.05 | % | < 0.05 | - | < 0.05 | - |

| Client Sample ID | | | HA36/0.0-0.1 | HA36/0.4-0.5 | HA37/0.0-0.1 | HA37/0.4-0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042756 | S22-JI0042757 | S22-JI0042758 | S22-JI0042759 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| % Moisture | 1 | % | 23 | 11 | 9.8 | 19 |
| **Heavy Metals** | | | | | | |
| Lead | 5 | mg/kg | 89 | 7.4 | 7.3 | 110 |
| Zinc | 5 | mg/kg | 210 | 20 | 24 | 150 |

| Client Sample ID | | | HA38/0.0-0.1 | HA38/0.4-0.5 | HA34/0.0-0.1 | HA34/0.4-0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042760 | S22-JI0042761 | S22-JI0042762 | S22-JI0042763 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | - | - | 26 | < 20 |
| TRH C15-C28 | 50 | mg/kg | - | - | 72 | < 50 |
| TRH C29-C36 | 50 | mg/kg | - | - | 66 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | - | - | 164 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | - | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | - | - | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | - | - | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | - | - | 130 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | - | - | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | - | 130 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | - | - | 0.2 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | - | - | 0.3 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | - | - | 0.2 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | - | - | 0.5 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | - | 95 | 90 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | - | 72 | 70 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | - | 75 | 79 |
| | | | | | | |
| % Moisture | 1 | % | 5.4 | 10 | 18 | 12 |

| Client Sample ID | | | HA38/0.0-0.1 | HA38/0.4-0.5 | HA34/0.0-0.1 | HA34/0.4-0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042760 | S22-JI0042761 | S22-JI0042762 | S22-JI0042763 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | - | 80 | 94 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | 88 | 86 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | - | - | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |

| Client Sample ID | | | HA38/0.0-0.1 | HA38/0.4-0.5 | HA34/0.0-0.1 | HA34/0.4-0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042760 | S22-JI0042761 | S22-JI0042762 | S22-JI0042763 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | - | - | < 2 | < 2 |
| Naled | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | - | - | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | - | - | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | - | - | 68 | 73 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | - | - | 80 | 94 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | 88 | 86 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | - | 3.2 | 2.2 |
| Cadmium | 0.4 | mg/kg | - | - | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | - | - | 21 | 31 |
| Copper | 5 | mg/kg | - | - | 22 | 13 |
| Lead | 5 | mg/kg | 51 | 9.4 | 51 | 24 |
| Mercury | 0.1 | mg/kg | - | - | < 0.1 | 0.1 |
| Nickel | 5 | mg/kg | - | - | 12 | 15 |
| Zinc | 5 | mg/kg | 78 | 29 | 170 | 66 |

| Client Sample ID | | | [G01]HA35/0.0-0.1 | HA35/0.3-0.4 | SS47/0.00-0.05 | SS48/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042764 | S22-JI0042765 | S22-JI0042766 | S22-JI0042767 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | 83 | < 50 | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | 51 | < 50 | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | 134 | < 50 | < 50 | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | - |

| Client Sample ID | | | [G01]HA35/0.0-0.1 | HA35/0.3-0.4 | SS47/0.00-0.05 | SS48/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042764 | S22-JI0042765 | S22-JI0042766 | S22-JI0042767 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | 130 | < 100 | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | 130 | < 100 | < 100 | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 82 | 98 | 81 | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | 1.0 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 1.3 | 0.6 | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.6 | 1.2 | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | 0.6 | < 0.5 | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | 0.8 | < 0.5 | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | 0.7 | < 0.5 | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 1 | < 0.5 | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | 0.8 | < 0.5 | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | 0.8 | < 0.5 | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 2 | < 0.5 | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | < 2 | < 0.5 | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | 3.7 | < 0.5 | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 72 | 71 | 77 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 73 | 76 | 83 | - |
| | | | | | | |
| % Moisture | 1 | % | 12 | 19 | 27 | 24 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |

| Client Sample ID | | | [G01]HA35/0.0-0.1 | HA35/0.3-0.4 | SS47/0.00-0.05 | SS48/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042764 | S22-JI0042765 | S22-JI0042766 | S22-JI0042767 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 85 | 98 | 84 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 87 | 87 | 93 | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |

| Client Sample ID | | | [G01]HA35/0.0-0.1 | HA35/0.3-0.4 | SS47/0.00-0.05 | SS48/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042764 | S22-JI0042765 | S22-JI0042766 | S22-JI0042767 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Triphenylphosphate (surr.) | 1 | % | 67 | 76 | 64 | - |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | 85 | 98 | 84 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 87 | 87 | 93 | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 2.3 | < 2 | < 2 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | - |
| Chromium | 5 | mg/kg | 25 | 21 | 15 | - |
| Copper | 5 | mg/kg | 13 | 11 | 12 | - |
| Lead | 5 | mg/kg | 33 | 27 | 32 | 29 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | - |
| Nickel | 5 | mg/kg | 13 | 10 | 7.8 | - |
| Zinc | 5 | mg/kg | 60 | 52 | 94 | 82 |
| **Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2.4-Trimethylbenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.3.5-Trimethylbenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 4-Chlorotoluene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Allyl chloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Bromobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |

| Client Sample ID | | | [G01]HA35/0.0-0.1 | HA35/0.3-0.4 | SS47/0.00-0.05 | SS48/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042764 | S22-JI0042765 | S22-JI0042766 | S22-JI0042767 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Volatile Organics** | | | | | | |
| Bromochloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Carbon disulfide | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Carbon Tetrachloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chloroform | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Iodomethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | - | < 0.2 | - |
| Methylene Chloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| Styrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Toluene | 0.1 | mg/kg | < 0.1 | - | < 0.1 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | - | < 0.3 | - |
| Total MAH* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 82 | - | 81 | - |
| Toluene-d8 (surr.) | 1 | % | 93 | - | 90 | - |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |

| Client Sample ID | | | [G01]HA35/0.0-0.1 | HA35/0.3-0.4 | SS47/0.00-0.05 | SS48/0.00-0.05 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042764 | S22-JI0042765 | S22-JI0042766 | S22-JI0042767 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Halogenated Volatile Organics** | | | | | | |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Carbon Tetrachloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chlorobenzene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chloroform | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Iodomethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Methylene Chloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Toluene-d8 (surr.) | 1 | % | 93 | - | 90 | - |

| Client Sample ID | | | [G01]SS48/0.15-0.20 | SS50/0.00-0.05 | SS51/0.00-0.05 | SS51/0.05-0.10 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042768 | S22-JI0042769 | S22-JI0042770 | S22-JI0042771 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | - | - | - |
| TRH C10-C14 | 20 | mg/kg | < 20 | - | - | - |
| TRH C15-C28 | 50 | mg/kg | < 50 | - | - | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | - | - | - |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | - | - | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | - | - | - |
| TRH C6-C10 | 20 | mg/kg | < 20 | - | - | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | - | - | - |
| TRH >C10-C16 | 50 | mg/kg | < 50 | - | - | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | - | - | - |
| TRH >C16-C34 | 100 | mg/kg | < 100 | - | - | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | - | - | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | - | - | - |

| Client Sample ID | | | [G01]SS48/0.15-0.20 | SS50/0.00-0.05 | SS51/0.00-0.05 | SS51/0.05-0.10 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-Jl0042768 | S22-Jl0042769 | S22-Jl0042770 | S22-Jl0042771 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | - | - | - |
| Toluene | 0.1 | mg/kg | < 0.1 | - | - | - |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | - | - | - |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | - | - | - |
| o-Xylene | 0.1 | mg/kg | < 0.1 | - | - | - |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | - | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 96 | - | - | - |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | - | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | - | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Pyrene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 69 | - | - | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 73 | - | - | - |
| | | | | | | |
| % Moisture | 1 | % | 24 | 27 | 16 | 16 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | - | - |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | - | - |
| 4.4'-DDE | 0.05 | mg/kg | < 0.1 | - | - | - |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | - | - |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | - | - |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | - | - |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | - | - |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | - | - |

| Client Sample ID | | | G01 SS48/0.15-0.20 | SS50/0.00-0.05 | SS51/0.00-0.05 | SS51/0.05-0.10 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-Jl0042768 | S22-Jl0042769 | S22-Jl0042770 | S22-Jl0042771 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | - | - |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | - | - |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.1 | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 89 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | - | - | - |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Coumaphos | 2 | mg/kg | < 2 | - | - | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | - |
| Omethoate | 2 | mg/kg | < 2 | - | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Triphenylphosphate (surr.) | 1 | % | 69 | - | - | - |

| Client Sample ID | | | [G01]SS48/0.15-0.20 | SS50/0.00-0.05 | SS51/0.00-0.05 | SS51/0.05-0.10 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042768 | S22-JI0042769 | S22-JI0042770 | S22-JI0042771 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | - | - |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 89 | - | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | - | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | - | - | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | - | - | - |
| Chromium | 5 | mg/kg | 18 | - | - | - |
| Copper | 5 | mg/kg | 10 | - | - | - |
| Lead | 5 | mg/kg | 24 | 420 | 9.8 | 39 |
| Mercury | 0.1 | mg/kg | < 0.1 | - | - | - |
| Nickel | 5 | mg/kg | 11 | - | - | - |
| Zinc | 5 | mg/kg | 46 | 660 | 24 | 74 |

| Client Sample ID | | | HA41/0..0-0.1 | HA41/0.4-0.5 | SS49/0.00-0.05 | SS49/0.15-0.20 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042772 | S22-JI0042773 | S22-JI0042774 | S22-JI0042775 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| % Moisture | 1 | % | 13 | 15 | 8.4 | 6.9 |
| **Heavy Metals** | | | | | | |
| Lead | 5 | mg/kg | 57 | 6.9 | 60 | 100 |
| Zinc | 5 | mg/kg | 62 | 19 | 160 | 25 |

| Client Sample ID | | | HA44/0.0-0.1 | HA44/0.2-0.3 | HA43/0.0-0.1 | HA43/0.3-0.4 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042776 | S22-JI0042777 | S22-JI0042778 | S22-JI0042779 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| % Moisture | 1 | % | 14 | 19 | 18 | 16 |
| **Heavy Metals** | | | | | | |
| Lead | 5 | mg/kg | 34 | 100 | 11 | 13 |
| Zinc | 5 | mg/kg | 53 | 40 | 59 | 31 |

| Client Sample ID | | | HA42/0.0-0.1 | COWRA_EIL | CT01 | CT02 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042780 | S22-JI0042781 | S22-JI0042782 | S22-JI0042783 |
| Date Sampled | | | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| % Moisture | 1 | % | 19 | 28 | 3.3 | 3.8 |
| Coal Tar in Asphalt*[M11] | | - | - | - | Present | Present |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | < 2 | - | - |
| Cadmium | 0.4 | mg/kg | - | < 0.4 | - | - |
| Chromium | 5 | mg/kg | - | 22 | - | - |
| Copper | 5 | mg/kg | - | 9.8 | - | - |
| Lead | 5 | mg/kg | 43 | 13 | - | - |
| Mercury | 0.1 | mg/kg | - | < 0.1 | - | - |
| Nickel | 5 | mg/kg | - | 9.5 | - | - |
| Zinc | 5 | mg/kg | 110 | 34 | - | - |

| Client Sample ID | | | QA01 | QA02 | QA03 | QA04 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042787 | S22-JI0042788 | S22-JI0042789 | S22-JI0042790 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 88 | 72 | 95 | 76 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

| Client Sample ID | | | QA01 | QA02 | QA03 | QA04 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042787 | S22-JI0042788 | S22-JI0042789 | S22-JI0042790 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 76 | 75 | 80 | 76 |
| p-Terphenyl-d14 (surr.) | 1 | % | 80 | 75 | 74 | 73 |
| | | | | | | |
| % Moisture | 1 | % | 12 | 12 | 3.7 | 17 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | - | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | - | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 88 | - | - | 97 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 93 | - | - | 89 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |

| Client Sample ID | | | QA01 | QA02 | QA03 | QA04 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042787 | S22-JI0042788 | S22-JI0042789 | S22-JI0042790 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | - | - | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | - | - | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 72 | - | - | 71 |
| **Polychlorinated Biphenyls** | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 88 | - | - | 97 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 93 | - | - | 89 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 37 | < 2 | - | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | - | < 0.4 |
| Chromium | 5 | mg/kg | 34 | 36 | - | 12 |
| Copper | 5 | mg/kg | 19 | 12 | - | 14 |
| Lead | 5 | mg/kg | 27 | 10 | - | 25 |
| Mercury | 0.1 | mg/kg | 0.2 | < 0.1 | - | < 0.1 |

| Client Sample ID | | | QA01 | QA02 | QA03 | QA04 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042787 | S22-JI0042788 | S22-JI0042789 | S22-JI0042790 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Nickel | 5 | mg/kg | 17 | 17 | - | 8.7 |
| Zinc | 5 | mg/kg | 35 | 36 | - | 70 |
| **Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2.4-Trimethylbenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.3.5-Trimethylbenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Chlorotoluene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | - | < 0.5 | - | - |
| Allyl chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Bromobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromochloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromodichloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromoform | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Carbon disulfide | 0.5 | mg/kg | - | < 0.5 | - | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloroform | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibromochloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibromomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Ethylbenzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Iodomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | - | < 0.5 | - | - |
| m&p-Xylenes | 0.2 | mg/kg | - | < 0.2 | - | - |
| Methylene Chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| o-Xylene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Styrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Tetrachloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |

| Client Sample ID | | | QA01 | QA02 | QA03 | QA04 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042787 | S22-JI0042788 | S22-JI0042789 | S22-JI0042790 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 12, 2022 | Jul 13, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Volatile Organics** | | | | | | |
| Toluene | 0.1 | mg/kg | - | < 0.1 | - | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Trichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vinyl chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Xylenes - Total* | 0.3 | mg/kg | - | < 0.3 | - | - |
| Total MAH* | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 72 | - | - |
| Toluene-d8 (surr.) | 1 | % | - | 80 | - | - |
| **Halogenated Volatile Organics** | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromodichloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromoform | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloroform | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibromochloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibromomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Iodomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Methylene Chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Tetrachloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Trichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vinyl chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | < 0.5 | - | - |
| Toluene-d8 (surr.) | 1 | % | - | 80 | - | - |

| Client Sample ID | | | [G01]QA06 | QA08 | SOIL TRIP SPIKE | SOIL TRIP BLANK |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042791 | S22-JI0042792 | S22-JI0042793 | S22-JI0042794 |
| Date Sampled | | | Jul 13, 2022 | Jul 14, 2022 | Jun 30, 2022 | Jun 30, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | - | - | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | - | - | - |
| TRH C15-C28 | 50 | mg/kg | 82 | - | - | - |
| TRH C29-C36 | 50 | mg/kg | < 50 | - | - | - |
| TRH C10-C36 (Total) | 50 | mg/kg | 82 | - | - | - |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | - | - | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | - | - | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 | - | - | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | - | - | - |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 50 | mg/kg | < 50 | - | - | - |
| TRH >C16-C34 | 100 | mg/kg | 110 | - | - | - |
| TRH >C34-C40 | 100 | mg/kg | < 100 | - | - | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | 110 | - | - | - |
| **BTEX** | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | - | - | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | - | - | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 55 | - | - | 92 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | 0.8 | - | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 1.1 | - | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.4 | - | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benz(a)anthracene | 0.5 | mg/kg | 1.0 | - | - | - |
| Benzo(a)pyrene | 0.5 | mg/kg | 0.6 | - | - | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | 0.6 | - | - | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | 0.7 | - | - | - |
| Chrysene | 0.5 | mg/kg | 1.0 | - | - | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Fluoranthene | 0.5 | mg/kg | < 2 | - | - | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | - | - | - |
| Phenanthrene | 0.5 | mg/kg | < 2 | - | - | - |
| Pyrene | 0.5 | mg/kg | < 2 | - | - | - |
| Total PAH* | 0.5 | mg/kg | 3.9 | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 77 | - | - | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 81 | - | - | - |
| | | | | | | |
| % Moisture | 1 | % | 16 | 17 | - | - |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | 87 | - | - | - |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | 9.0 | - | - | - |

| Client Sample ID | | | [G01]QA06 | QA08 | SOIL TRIP SPIKE | SOIL TRIP BLANK |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0042791 | S22-JI0042792 | S22-JI0042793 | S22-JI0042794 |
| Date Sampled | | | Jul 13, 2022 | Jul 14, 2022 | Jun 30, 2022 | Jun 30, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | - | - | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | - | - | - |
| Chromium | 5 | mg/kg | 28 | - | - | - |
| Copper | 5 | mg/kg | 13 | - | - | - |
| Lead | 5 | mg/kg | 380 | 8.9 | - | - |
| Mercury | 0.1 | mg/kg | 0.2 | - | - | - |
| Nickel | 5 | mg/kg | 12 | - | - | - |
| Zinc | 5 | mg/kg | 120 | 28 | - | - |
| **BTEX** | | | | | | |
| Benzene | 1 | % | - | - | 78 | - |
| Ethylbenzene | 1 | % | - | - | 77 | - |
| m&p-Xylenes | 1 | % | - | - | 76 | - |
| o-Xylene | 1 | % | - | - | 79 | - |
| Toluene | 1 | % | - | - | 78 | - |
| Xylenes - Total | 1 | % | - | - | 78 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | - | 64 | - |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Sydney | Jul 25, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 25, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons | Sydney | Jul 22, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Sydney | Jul 25, 2022 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Eurofins Suite B4 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 25, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Polycyclic Aromatic Hydrocarbons | Sydney | Jul 25, 2022 | 14 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| % Moisture | Sydney | Jul 21, 2022 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | Sydney | Jul 25, 2022 | 7 Days |
| - Method: LTM-INO-4030 Conductivity | | | |
| pH (1:5 Aqueous extract at 25 °C as rec.) | Sydney | Jul 25, 2022 | 7 Days |
| - Method: LTM-GEN-7090 pH by ISE | | | |
| Coal Tar in Asphalt* | Sydney | Jul 22, 2022 | 0 Days |
| - Method: RMS Method T542 – identification of tar or pitch in asphalt | | | |
| Polychlorinated Biphenyls | Sydney | Jul 22, 2022 | 28 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Heavy Metals | Sydney | Jul 22, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Volatile Organics | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices | | | |
| Halogenated Volatile Organics | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2150 VOCs by Purge Trap GCMS | | | |
| Organochlorine Pesticides | Sydney | Jul 22, 2022 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Organophosphorus Pesticides | Sydney | Jul 22, 2022 | 14 Days |
| - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | | | |
| Metals M8 | Sydney | Jul 25, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Foreign Material - Type I | Sydney | Jul 21, 2022 | 180 Days |
| - Method: RMS Method T276 | | | |
| Foreign Material - Type II | Sydney | Jul 21, 2022 | 180 Days |
| - Method: RMS Method T276 | | | |
| Foreign Material - Type III | Sydney | Jul 21, 2022 | 180 Days |
| - Method: RMS Method T276 | | | |

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**Address:** Level 6, 76 Berry Street
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NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| **External Laboratory** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BH12/0.0-0.1 | Jul 11, 2022 | | Soil | S22-Jl0042657 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 2 | BH12/0.3-0.5 | Jul 11, 2022 | | Soil | S22-Jl0042658 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 3 | BH12/0.5-0.6 | Jul 11, 2022 | | Soil | S22-Jl0042659 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 4 | BH12/0.9-1.0 | Jul 11, 2022 | | Soil | S22-Jl0042660 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 5 | BH12/1.9-2.0 | Jul 11, 2022 | | Soil | S22-Jl0042661 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 6 | SS46/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042662 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 7 | SS45/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042663 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 8 | SS45/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042664 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 9 | SS52/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042665 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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**Address:** Level 6, 76 Berry Street
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**Project Name:** COWRA DSI
**Project ID:** 30013211

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**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
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**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 10 | SS53/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042666 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 11 | SS53/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042667 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 12 | SS54/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042668 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 13 | BH29/0.1-0.2 | Jul 11, 2022 | | Soil | S22-Jl0042669 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 14 | BH29/0.5-0.6 | Jul 12, 2022 | | Soil | S22-Jl0042670 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 15 | BH29/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042671 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 16 | BH29/2.0-2.5 ENM | Jul 12, 2022 | | Soil | S22-Jl0042672 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 17 | HA39/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042673 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 18 | HA39/0.3-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042674 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 19 | BH32/0.4-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042675 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 20 | BH32/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042676 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 21 | BH32/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042677 | | | | | | | | | | | | | | | | | X | | | X | | | | |

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**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 22 | HA31/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042678 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 23 | SS55/0.00-0.05 | Jul 12, 2022 | | Soil | S22-Jl0042679 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 24 | SS55/0.15-0.20 | Jul 12, 2022 | | Soil | S22-Jl0042680 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 25 | BH30/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042681 | | X | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 26 | BH30/0.4-0.6 ENM | Jul 12, 2022 | | Soil | S22-Jl0042682 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 27 | BH30/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042683 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 28 | BH30/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042684 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 29 | BH33/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042685 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 30 | BH33/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042686 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 31 | HA40/0.15-0.25 | Jul 12, 2022 | | Soil | S22-Jl0042687 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 32 | TP28/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042688 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 33 | TP28/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042689 | | | | | | | | | | | | X | | | | | X | X | | | | | | |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
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NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
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**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 34 | TP28/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042690 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 35 | TP11/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042691 | X | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 36 | TP11/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042692 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 37 | TP11/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042693 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 38 | TP20/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042694 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 39 | TP20/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042695 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 40 | TP20/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042696 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 41 | TP20/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042697 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 42 | TP20/2.4-2.5 | Jul 13, 2022 | | Soil | S22-Jl0042698 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 43 | TP13/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042699 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 44 | TP13/0.25-0.35 | Jul 13, 2022 | | Soil | S22-Jl0042700 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 45 | TP13/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042701 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 46 | TP14/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042702 | | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 47 | TP14/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042703 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 48 | TP14/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042704 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 49 | TP14/0.5 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042705 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 50 | TP19/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042706 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 51 | TP19/0.2 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042707 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 52 | TP19/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042708 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 53 | TP19/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042709 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 54 | TP19/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042710 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 55 | TP19/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042711 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 56 | TP19/1.2-1.3 | Jul 13, 2022 | | Soil | S22-Jl0042712 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 57 | TP16/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042713 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 58 | TP16/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042714 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 59 | TP16/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042715 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 60 | TP16/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042716 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 61 | TP15/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042717 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 62 | TP15/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042718 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 63 | TP15/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042719 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 64 | TP15/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042720 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 65 | TP18/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042721 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 66 | TP18/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042722 | | X | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 67 | TP18/0.4-0.5 ENM | Jul 13, 2022 | | Soil | S22-Jl0042723 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 68 | TP18/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042724 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 69 | TP17/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042725 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 70 | TP17/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042726 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | TP17/0.0-0.2 ENM | Jul 13, 2022 | | Soil | S22-Jl0042727 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 72 | TP23/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042728 | | | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 73 | TP23/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042729 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | TP23/0.20-0.25 | Jul 13, 2022 | | Soil | S22-Jl0042730 | | | | | | | | | | | | | | | | | X | | X | | | | | | |
| 75 | TP23/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042731 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |
| 76 | TP23/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042732 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | TP23/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042733 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 78 | TP24/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042734 | X | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 79 | TP24/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042735 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 80 | TP24/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042736 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 81 | TP24/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042737 | | | | X | | | | | | | | | | | | | | | | | | | | |
| 82 | TP27/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042738 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 83 | TP27/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042739 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 84 | TP27/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042740 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 85 | TP27/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042741 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 86 | TP26/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042742 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 87 | TP26/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042743 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 88 | TP26/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042744 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 89 | TP25/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042745 | X | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 90 | TP25/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042746 | | | | | | | | | | | | | | X | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 91 | TP25/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042747 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 92 | TP21/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042748 | | X | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 93 | TP21/0.2-0.3 | Jul 13, 2022 | | Soil | S22-Jl0042749 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 94 | TP21/0.2-0.3 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042750 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 95 | TP21/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042751 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 96 | TP22/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042752 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 97 | TP22/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042753 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 98 | TP22/0.0-0.1 ENM | Jul 13, 2022 | | Soil | S22-Jl0042754 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 99 | TP22/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042755 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 100 | HA36/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042756 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 101 | HA36/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042757 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 102 | HA37/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042758 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 103 | HA37/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042759 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 104 | HA38/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042760 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 105 | HA38/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042761 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 106 | HA34/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042762 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 107 | HA34/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042763 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 108 | HA35/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042764 | X | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 109 | HA35/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042765 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 110 | SS47/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042766 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 111 | SS48/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042767 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 112 | SS48/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042768 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 113 | SS50/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042769 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 114 | SS51/0.00- | Jul 14, 2022 | | Soil | S22-Jl0042770 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | SS51/0.05-0.10 | Jul 14, 2022 | | Soil | S22-Jl0042771 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 116 | HA41/0..0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042772 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 117 | HA41/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042773 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 118 | SS49/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042774 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 119 | SS49/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042775 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 120 | HA44/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042776 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 121 | HA44/0.2-0.3 | Jul 14, 2022 | | Soil | S22-Jl0042777 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 122 | HA43/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042778 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 123 | HA43/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042779 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 124 | HA42/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042780 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 125 | COWRA_EIL | Jul 14, 2022 | | Soil | S22-Jl0042781 | | | | | | | | | | | | | X | | | | X | | | | | | | |
| 126 | CT01 | Jul 14, 2022 | | Soil | S22-Jl0042782 | | | | | X | | | | | | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
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| 127 | CT02 | Jul 14, 2022 | | Soil | S22-Jl0042783 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 128 | RINSATE01 | Jul 11, 2022 | | Water | S22-Jl0042784 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 129 | RINSATE02 | Jul 12, 2022 | | Water | S22-Jl0042785 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 130 | RINSATE03 | Jul 14, 2022 | | Water | S22-Jl0042786 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 131 | QA01 | Jul 11, 2022 | | Soil | S22-Jl0042787 | | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 132 | QA02 | Jul 12, 2022 | | Soil | S22-Jl0042788 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 133 | QA03 | Jul 12, 2022 | | Soil | S22-Jl0042789 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 134 | QA04 | Jul 13, 2022 | | Soil | S22-Jl0042790 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 135 | QA06 | Jul 13, 2022 | | Soil | S22-Jl0042791 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 136 | QA08 | Jul 14, 2022 | | Soil | S22-Jl0042792 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 137 | SOIL TRIP SPIKE | Jun 30, 2022 | | Soil | S22-Jl0042793 | | | | | | | | | | | | | | | | | | | | | | X | | |
| 138 | SOIL TRIP BLANK | Jun 30, 2022 | | Soil | S22-Jl0042794 | | | | | | | | | | | | | | | | | | | | | X | | | |
| 139 | TP14/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042795 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Project Name:** COWRA DSI
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**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
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**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 140 | TP19/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042796 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 141 | BH12/2.9-3.0 | Jul 11, 2022 | | Soil | S22-Jl0042797 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 142 | BH12/3.9-4.0 | Jul 11, 2022 | | Soil | S22-Jl0042798 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 143 | BH12/4.9-5.0 | Jul 11, 2022 | | Soil | S22-Jl0042799 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 144 | SS46/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042800 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 145 | SS52/0.10-0.15 | Jul 11, 2022 | | Soil | S22-Jl0042801 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 146 | SS54/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042802 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 147 | BH29/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042803 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 148 | BH29/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042804 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 149 | BH29/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042805 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 150 | BH29/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042806 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 151 | BH29/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042807 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 152 | BH29/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042808 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 153 | BH32/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042809 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 154 | BH32/0.6-0.7 | Jul 12, 2022 | | Soil | S22-Jl0042810 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 155 | BH32/1.0-1.1 | Jul 12, 2022 | | Soil | S22-Jl0042811 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 156 | BH32/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042812 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 157 | BH32/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042813 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 158 | BH32/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042814 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 159 | BH32/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042815 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 160 | BH30/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042816 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 161 | BH30/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042817 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 162 | BH30/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042818 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 163 | BH33/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042819 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 164 | BH33/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042820 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 165 | TP28/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042821 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 166 | TP11/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042822 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 167 | TP11/0.5-0.6 ENM | Jul 13, 2022 | | Soil | S22-Jl0042823 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 168 | TP20/1.9-2.0 | Jul 13, 2022 | | Soil | S22-Jl0042824 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 169 | TP13/0.2-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042825 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 170 | TP13/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042826 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 171 | TP14/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042827 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 172 | TP14/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042828 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 173 | TP15/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042829 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 174 | TP17/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042830 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 175 | TP17/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042831 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 176 | TP23/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042832 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 177 | TP24/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042833 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 178 | TP27/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042834 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 179 | TP26/0.1-0.2 | Jul 13, 2022 | | Soil | S22-Jl0042835 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 180 | TP26/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042836 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 181 | TP25/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042837 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 182 | TP25/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042838 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 183 | TP25/0.8-0.9 | Jul 13, 2022 | | Soil | S22-Jl0042839 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 184 | TP21/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042840 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 185 | TP22/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042841 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 186 | SS50/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042842 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 187 | QA05 | Jul 13, 2022 | | Soil | S22-Jl0042843 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 188 | QA07 | Jul 14, 2022 | | Soil | S22-Jl0042844 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 189 | EXTRA TP13/0.5-0.6 JAR | Jul 11, 2022 | | Soil | S22-Jl0043103 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 190 | EXTRA BH33/0.4-0.6 | Jun 30, 2022 | | Soil | S22-Jl0044245 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
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**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | BH33/0.4-0.6 ENM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | EXTRA TP19/0.4-0.5 ENM | Jun 30, 2022 | | Soil | S22-Jl0044246 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 192 | DUPLICATE TP27/0.0-0.1 BAG | Jul 13, 2022 | | Soil | S22-Jl0044247 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 193 | EXTRA SS46/0.00-0.15 BG (ASBPA QUANT.) | Jul 11, 2022 | | Soil | S22-Jl0044248 | | | | | | | X | | | | | | | | | | | | | | | | | |
| **Test Counts** | | | | | | 8 | 55 | 4 | 1 | 3 | 12 | 55 | 35 | 12 | 35 | 2 | 41 | 1 | 11 | 7 | 7 | 103 | 39 | 14 | 14 | 1 | 1 | 4 | 4 |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

**mg/kg:** milligrams per kilogram
**mg/L:** milligrams per litre
**µg/L:** micrograms per litre
**ppm:** parts per million
**ppb:** parts per billion
**%:** Percentage
**org/100 mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **COC** | Chain of Custody |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **CRM** | Certified Reference Material (ISO17034) - reported as percent recovery. |
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **LOR** | Limit of Reporting. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **Method Blank** | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| **NCP** | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **SRA** | Sample Receipt Advice |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **TBTO** | Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **TEQ** | Toxic Equivalency Quotient or Total Equivalence |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **US EPA** | United States Environmental Protection Agency |
| **WA DWER** | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| **Method Blank** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Total PAH* | mg/kg | - | | | 0.5 | N/A | |
| **Method Blank** | | | | | | | |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | uS/cm | < 10 | | | 10 | Pass | |
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| **Method Blank** | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| Aroclor-1016 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1221 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1232 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1242 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1248 | mg/kg | < 0.1 | | | 0.1 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Aroclor-1254 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1260 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Total PCB* | mg/kg | < 0.1 | | | 0.1 | Pass | |
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| **Method Blank** | | | | | | | |
| **Volatile Organics** | | | | | | | |
| 1.1-Dichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1-Dichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.1-Trichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.1.2-Tetrachloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.2-Trichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.2.2-Tetrachloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dibromoethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dichlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dichloropropane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2.3-Trichloropropane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2.4-Trimethylbenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.3-Dichlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.3-Dichloropropane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.3.5-Trimethylbenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.4-Dichlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 2-Butanone (MEK) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 2-Propanone (Acetone) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 4-Chlorotoluene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Allyl chloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromochloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromodichloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromoform | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromomethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Carbon disulfide | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Carbon Tetrachloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chloroform | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| cis-1.2-Dichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| cis-1.3-Dichloropropene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibromochloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibromomethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dichlorodifluoromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Iodomethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Isopropyl benzene (Cumene) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Methylene Chloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Styrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Tetrachloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| trans-1.2-Dichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| trans-1.3-Dichloropropene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Trichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Trichlorofluoromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Vinyl chloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | % | 90 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 74 | | | 70-130 | Pass | |
| Naphthalene | % | 93 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 88 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 74 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | % | 97 | | | 70-130 | Pass | |
| Toluene | % | 95 | | | 70-130 | Pass | |
| Ethylbenzene | % | 93 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 92 | | | 70-130 | Pass | |
| o-Xylene | % | 82 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 89 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | % | 79 | | | 70-130 | Pass | |
| Acenaphthylene | % | 90 | | | 70-130 | Pass | |
| Anthracene | % | 87 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 95 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 118 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 101 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 99 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 90 | | | 70-130 | Pass | |
| Chrysene | % | 90 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 88 | | | 70-130 | Pass | |
| Fluoranthene | % | 93 | | | 70-130 | Pass | |
| Fluorene | % | 96 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 94 | | | 70-130 | Pass | |
| Naphthalene | % | 92 | | | 70-130 | Pass | |
| Phenanthrene | % | 95 | | | 70-130 | Pass | |
| Pyrene | % | 90 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | % | 95 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 88 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 87 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 97 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 86 | | | 70-130 | Pass | |
| a-HCH | % | 92 | | | 70-130 | Pass | |
| Aldrin | % | 76 | | | 70-130 | Pass | |
| b-HCH | % | 108 | | | 70-130 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| d-HCH | % | 80 | | | 70-130 | Pass | |
| Dieldrin | % | 80 | | | 70-130 | Pass | |
| Endosulfan I | % | 77 | | | 70-130 | Pass | |
| Endosulfan II | % | 95 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 76 | | | 70-130 | Pass | |
| Endrin | % | 100 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 98 | | | 70-130 | Pass | |
| Endrin ketone | % | 73 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 81 | | | 70-130 | Pass | |
| Heptachlor | % | 88 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 73 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 98 | | | 70-130 | Pass | |
| Methoxychlor | % | 73 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Diazinon | % | 98 | | | 70-130 | Pass | |
| Dimethoate | % | 70 | | | 70-130 | Pass | |
| Ethion | % | 92 | | | 70-130 | Pass | |
| Fenitrothion | % | 98 | | | 70-130 | Pass | |
| Methyl parathion | % | 112 | | | 70-130 | Pass | |
| Mevinphos | % | 95 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| Aroclor-1221 | % | 96 | | | 70-130 | Pass | |
| Aroclor-1254 | % | 108 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | % | 95 | | | 80-120 | Pass | |
| Cadmium | % | 103 | | | 80-120 | Pass | |
| Chromium | % | 99 | | | 80-120 | Pass | |
| Copper | % | 101 | | | 80-120 | Pass | |
| Lead | % | 104 | | | 80-120 | Pass | |
| Lead | % | 100 | | | 80-120 | Pass | |
| Mercury | % | 98 | | | 80-120 | Pass | |
| Nickel | % | 99 | | | 80-120 | Pass | |
| Zinc | % | 103 | | | 80-120 | Pass | |
| Zinc | % | 110 | | | 80-120 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Volatile Organics** | | | | | | | |
| 1.1-Dichloroethene | % | 108 | | | 70-130 | Pass | |
| 1.1.1-Trichloroethane | % | 97 | | | 70-130 | Pass | |
| 1.2-Dichlorobenzene | % | 112 | | | 70-130 | Pass | |
| 1.2-Dichloroethane | % | 113 | | | 70-130 | Pass | |
| Trichloroethene | % | 99 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | S22-Jl0030631 | NCP | % | 83 | | | 70-130 | Pass | |
| Naphthalene | S22-Jl0030631 | NCP | % | 75 | | | 70-130 | Pass | |
| TRH C6-C10 | S22-Jl0030631 | NCP | % | 84 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | S22-Jl0030631 | NCP | % | 82 | | | 70-130 | Pass | |
| Toluene | S22-Jl0030631 | NCP | % | 93 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | S22-Jl0030631 | NCP | % | 88 | | | 70-130 | Pass | |
| m&p-Xylenes | S22-Jl0030631 | NCP | % | 84 | | | 70-130 | Pass | |
| o-Xylene | S22-Jl0030631 | NCP | % | 86 | | | 70-130 | Pass | |
| Xylenes - Total* | S22-Jl0030631 | NCP | % | 85 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C10-C14 | S22-Jl0039046 | NCP | % | 99 | | | 70-130 | Pass | |
| TRH >C10-C16 | S22-Jl0039046 | NCP | % | 96 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S22-Jl0042663 | CP | % | 89 | | | 75-125 | Pass | |
| Cadmium | S22-Jl0042663 | CP | % | 101 | | | 75-125 | Pass | |
| Chromium | S22-Jl0042663 | CP | % | 92 | | | 75-125 | Pass | |
| Lead | S22-Jl0042663 | CP | % | 105 | | | 75-125 | Pass | |
| Mercury | S22-Jl0042663 | CP | % | 102 | | | 75-125 | Pass | |
| Nickel | S22-Jl0042663 | CP | % | 94 | | | 75-125 | Pass | |
| Zinc | S22-Jl0042663 | CP | % | 87 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Volatile Organics** | | | | Result 1 | | | | | |
| 1.1-Dichloroethene | N22-Jl0027646 | NCP | % | 81 | | | 70-130 | Pass | |
| 1.1.1-Trichloroethane | N22-Jl0027646 | NCP | % | 70 | | | 70-130 | Pass | |
| 1.2-Dichlorobenzene | N22-Jl0027646 | NCP | % | 84 | | | 70-130 | Pass | |
| 1.2-Dichloroethane | N22-Jl0027646 | NCP | % | 85 | | | 70-130 | Pass | |
| Trichloroethene | N22-Jl0027646 | NCP | % | 71 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S22-Jl0042665 | CP | % | 113 | | | 75-125 | Pass | |
| Cadmium | S22-Jl0042665 | CP | % | 110 | | | 75-125 | Pass | |
| Chromium | S22-Jl0042665 | CP | % | 110 | | | 75-125 | Pass | |
| Copper | S22-Jl0042665 | CP | % | 109 | | | 75-125 | Pass | |
| Nickel | S22-Jl0042665 | CP | % | 104 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C10-C14 | S22-Jl0042669 | CP | % | 91 | | | 70-130 | Pass | |
| TRH >C10-C16 | S22-Jl0042669 | CP | % | 103 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C10-C14 | S22-Jl0042684 | CP | % | 118 | | | 70-130 | Pass | |
| TRH >C10-C16 | S22-Jl0042684 | CP | % | 117 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | S22-Jl0042719 | CP | % | 82 | | | 70-130 | Pass | |
| Naphthalene | S22-Jl0042719 | CP | % | 95 | | | 70-130 | Pass | |
| TRH C6-C10 | S22-Jl0042719 | CP | % | 81 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | S22-Jl0042719 | CP | % | 84 | | | 70-130 | Pass | |
| Toluene | S22-Jl0042719 | CP | % | 86 | | | 70-130 | Pass | |
| Ethylbenzene | S22-Jl0042719 | CP | % | 87 | | | 70-130 | Pass | |
| m&p-Xylenes | S22-Jl0042719 | CP | % | 91 | | | 70-130 | Pass | |
| o-Xylene | S22-Jl0042719 | CP | % | 92 | | | 70-130 | Pass | |
| Xylenes - Total* | S22-Jl0042719 | CP | % | 91 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | S22-Jl0042719 | CP | % | 118 | | | 75-125 | Pass | |
| Cadmium | S22-Jl0042719 | CP | % | 117 | | | 75-125 | Pass | |
| Chromium | S22-Jl0042719 | CP | % | 110 | | | 75-125 | Pass | |
| Copper | S22-Jl0042719 | CP | % | 103 | | | 75-125 | Pass | |
| Lead | S22-Jl0042719 | CP | % | 106 | | | 75-125 | Pass | |
| Mercury | S22-Jl0042719 | CP | % | 115 | | | 75-125 | Pass | |
| Nickel | S22-Jl0042719 | CP | % | 115 | | | 75-125 | Pass | |
| Zinc | S22-Jl0042719 | CP | % | 118 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | S22-Jl0042745 | CP | % | 85 | | | 70-130 | Pass | |
| TRH C10-C14 | S22-Jl0042745 | CP | % | 80 | | | 70-130 | Pass | |
| TRH C6-C10 | S22-Jl0042745 | CP | % | 85 | | | 70-130 | Pass | |
| TRH >C10-C16 | S22-Jl0042745 | CP | % | 83 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | S22-Jl0042745 | CP | % | 87 | | | 70-130 | Pass | |
| Toluene | S22-Jl0042745 | CP | % | 86 | | | 70-130 | Pass | |
| Ethylbenzene | S22-Jl0042745 | CP | % | 88 | | | 70-130 | Pass | |
| m&p-Xylenes | S22-Jl0042745 | CP | % | 84 | | | 70-130 | Pass | |
| o-Xylene | S22-Jl0042745 | CP | % | 87 | | | 70-130 | Pass | |
| Xylenes - Total* | S22-Jl0042745 | CP | % | 85 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S22-Jl0042768 | CP | % | 101 | | | 75-125 | Pass | |
| Cadmium | S22-Jl0042768 | CP | % | 111 | | | 75-125 | Pass | |
| Chromium | S22-Jl0042768 | CP | % | 106 | | | 75-125 | Pass | |
| Copper | S22-Jl0042768 | CP | % | 112 | | | 75-125 | Pass | |
| Lead | S22-Jl0042768 | CP | % | 106 | | | 75-125 | Pass | |
| Mercury | S22-Jl0042768 | CP | % | 100 | | | 75-125 | Pass | |
| Nickel | S22-Jl0042768 | CP | % | 106 | | | 75-125 | Pass | |
| Zinc | S22-Jl0042768 | CP | % | 105 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S22-Jl0042777 | CP | % | 88 | | | 75-125 | Pass | |
| Cadmium | S22-Jl0042777 | CP | % | 105 | | | 75-125 | Pass | |
| Chromium | S22-Jl0042777 | CP | % | 93 | | | 75-125 | Pass | |
| Copper | S22-Jl0042777 | CP | % | 91 | | | 75-125 | Pass | |
| Lead | S22-Jl0042777 | CP | % | 94 | | | 75-125 | Pass | |
| Mercury | S22-Jl0042777 | CP | % | 95 | | | 75-125 | Pass | |
| Nickel | S22-Jl0042777 | CP | % | 95 | | | 75-125 | Pass | |
| Zinc | S22-Jl0042777 | CP | % | 91 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | S22-Jl0042787 | CP | % | 76 | | | 70-130 | Pass | |
| Naphthalene | S22-Jl0042787 | CP | % | 84 | | | 70-130 | Pass | |
| TRH C6-C10 | S22-Jl0042787 | CP | % | 75 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | S22-Jl0042787 | CP | % | 82 | | | 70-130 | Pass | |
| Toluene | S22-Jl0042787 | CP | % | 81 | | | 70-130 | Pass | |
| Ethylbenzene | S22-Jl0042787 | CP | % | 82 | | | 70-130 | Pass | |
| m&p-Xylenes | S22-Jl0042787 | CP | % | 81 | | | 70-130 | Pass | |
| o-Xylene | S22-Jl0042787 | CP | % | 81 | | | 70-130 | Pass | |
| Xylenes - Total* | S22-Jl0042787 | CP | % | 81 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C10-C14 | N22-JI0029993 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | N22-JI0029993 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | N22-JI0029993 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C10-C16 | N22-JI0029993 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | N22-JI0029993 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | N22-JI0029993 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-JI0042663 | CP | mg/kg | 2.4 | < 2 | 36 | 30% | Fail | Q15 |
| Cadmium | S22-JI0042663 | CP | mg/kg | 0.5 | 0.5 | 13 | 30% | Pass | |
| Chromium | S22-JI0042663 | CP | mg/kg | 21 | 20 | 4.4 | 30% | Pass | |
| Copper | S22-JI0042663 | CP | mg/kg | 25 | 24 | 2.8 | 30% | Pass | |
| Lead | S22-JI0042663 | CP | mg/kg | 98 | 95 | 3.4 | 30% | Pass | |
| Mercury | S22-JI0042663 | CP | mg/kg | 0.2 | 0.2 | 1.9 | 30% | Pass | |
| Nickel | S22-JI0042663 | CP | mg/kg | 10 | 8.8 | 15 | 30% | Pass | |
| Zinc | S22-JI0042663 | CP | mg/kg | 520 | 450 | 14 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Volatile Organics** | | | | Result 1 | Result 2 | RPD | | | |
| 1.1-Dichloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.1-Dichloroethene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.1.1-Trichloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.1.1.2-Tetrachloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.1.2-Trichloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.1.2.2-Tetrachloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.2-Dibromoethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.2-Dichlorobenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.2-Dichloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.2-Dichloropropane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.2.3-Trichloropropane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.2.4-Trimethylbenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.3-Dichlorobenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.3-Dichloropropane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.3.5-Trimethylbenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 1.4-Dichlorobenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 2-Butanone (MEK) | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 2-Propanone (Acetone) | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 4-Chlorotoluene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 4-Methyl-2-pentanone (MIBK) | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Allyl chloride | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Bromobenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Bromochloromethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Bromodichloromethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Bromoform | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Bromomethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Carbon disulfide | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Carbon Tetrachloride | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chlorobenzene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chloroethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chloroform | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chloromethane | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| cis-1.2-Dichloroethene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| cis-1.3-Dichloropropene | S22-JI0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Volatile Organics** | | | | Result 1 | Result 2 | RPD | | | |
| Dibromochloromethane | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibromomethane | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dichlorodifluoromethane | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Iodomethane | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Isopropyl benzene (Cumene) | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Methylene Chloride | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Styrene | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Tetrachloroethene | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| trans-1.2-Dichloroethene | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| trans-1.3-Dichloropropene | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Trichloroethene | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Trichlorofluoromethane | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Vinyl chloride | S22-Jl0028048 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042664 | CP | % | 14 | 18 | 25 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042664 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Cadmium | S22-Jl0042664 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042664 | CP | mg/kg | 17 | 17 | <1 | 30% | Pass | |
| Copper | S22-Jl0042664 | CP | mg/kg | 15 | 16 | 5.7 | 30% | Pass | |
| Lead | S22-Jl0042664 | CP | mg/kg | 50 | 58 | 15 | 30% | Pass | |
| Mercury | S22-Jl0042664 | CP | mg/kg | 0.2 | 0.2 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042664 | CP | mg/kg | 8.9 | 8.5 | 4.6 | 30% | Pass | |
| Zinc | S22-Jl0042664 | CP | mg/kg | 160 | 180 | 15 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | S22-Jl0028033 | NCP | uS/cm | 94 | 100 | 9.2 | 30% | Pass | |
| pH (1:5 Aqueous extract at 25 °C as rec.) | S22-Jl0028033 | NCP | pH Units | 7.6 | 7.7 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042675 | CP | % | 12 | 12 | 6.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C10-C14 | S22-Jl0042683 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | S22-Jl0042683 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | S22-Jl0042683 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C10-C16 | S22-Jl0042683 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | S22-Jl0042683 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | S22-Jl0042683 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042687 | CP | % | 14 | 14 | 3.8 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042687 | CP | mg/kg | 2.4 | 2.4 | <1 | 30% | Pass | |
| Cadmium | S22-Jl0042687 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042687 | CP | mg/kg | 22 | 25 | 14 | 30% | Pass | |
| Copper | S22-Jl0042687 | CP | mg/kg | 24 | 28 | 16 | 30% | Pass | |
| Lead | S22-Jl0042687 | CP | mg/kg | 14 | 14 | 5.3 | 30% | Pass | |
| Mercury | S22-Jl0042687 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042687 | CP | mg/kg | 11 | 13 | 13 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-Jl0042697 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| Naphthalene | S22-Jl0042697 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-Jl0042697 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-Jl0042697 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S22-Jl0042697 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S22-Jl0042697 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-Jl0042697 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S22-Jl0042697 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-Jl0042697 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042698 | CP | mg/kg | 2.1 | 2.1 | 2.6 | 30% | Pass | |
| Cadmium | S22-Jl0042698 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042698 | CP | mg/kg | 8.9 | 9.4 | 5.5 | 30% | Pass | |
| Lead | S22-Jl0042698 | CP | mg/kg | 39 | 48 | 20 | 30% | Pass | |
| Mercury | S22-Jl0042698 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042698 | CP | mg/kg | 8.8 | 9.2 | 4.8 | 30% | Pass | |
| Zinc | S22-Jl0042698 | CP | mg/kg | 130 | 150 | 11 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042700 | CP | % | 20 | 22 | 7.7 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-Jl0042717 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| Naphthalene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-Jl0042717 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-Jl0042717 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042717 | CP | % | 13 | 13 | 3.1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S22-Jl0042717 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | S22-Jl0042717 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organophosphorus Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | S22-Jl0042717 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Diazinon | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dichlorvos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dimethoate | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Disulfoton | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| EPN | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethoprop | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethyl parathion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenitrothion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fensulfothion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenthion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Malathion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Merphos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Methyl parathion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Mevinphos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Monocrotophos | S22-Jl0042717 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Naled | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Omethoate | S22-Jl0042717 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Phorate | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pirimiphos-methyl | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |

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|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Organophosphorus Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Pyrazophos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ronnel | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Terbufos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tetrachlorvinphos | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tokuthion | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Trichloronate | S22-Jl0042717 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | Result 1 | Result 2 | RPD | | | |
| Aroclor-1016 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1221 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1232 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1242 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1248 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1254 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1260 | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Total PCB* | S22-Jl0042717 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042734 | CP | % | 20 | 20 | 2.8 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042734 | CP | mg/kg | 3.5 | 3.0 | 16 | 30% | Pass | |
| Cadmium | S22-Jl0042734 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042734 | CP | mg/kg | 47 | 40 | 16 | 30% | Pass | |
| Copper | S22-Jl0042734 | CP | mg/kg | 21 | 18 | 16 | 30% | Pass | |
| Lead | S22-Jl0042734 | CP | mg/kg | 16 | 13 | 14 | 30% | Pass | |
| Mercury | S22-Jl0042734 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042734 | CP | mg/kg | 21 | 18 | 16 | 30% | Pass | |
| Zinc | S22-Jl0042734 | CP | mg/kg | 60 | 52 | 15 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042735 | CP | mg/kg | 2.7 | 2.3 | 15 | 30% | Pass | |
| Cadmium | S22-Jl0042735 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042735 | CP | mg/kg | 55 | 46 | 19 | 30% | Pass | |
| Copper | S22-Jl0042735 | CP | mg/kg | 21 | 17 | 20 | 30% | Pass | |
| Lead | S22-Jl0042735 | CP | mg/kg | 13 | 10 | 20 | 30% | Pass | |
| Mercury | S22-Jl0042735 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042735 | CP | mg/kg | 23 | 19 | 20 | 30% | Pass | |
| Zinc | S22-Jl0042735 | CP | mg/kg | 60 | 49 | 20 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-Jl0042743 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| Naphthalene | S22-Jl0042743 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-Jl0042743 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-Jl0042743 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S22-Jl0042743 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S22-Jl0042743 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-Jl0042743 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S22-Jl0042743 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-Jl0042743 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |

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|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042743 | CP | mg/kg | 2.0 | < 2 | 2.9 | 30% | Pass | |
| Cadmium | S22-Jl0042743 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042743 | CP | mg/kg | 20 | 18 | 10 | 30% | Pass | |
| Copper | S22-Jl0042743 | CP | mg/kg | 13 | 12 | 9.1 | 30% | Pass | |
| Lead | S22-Jl0042743 | CP | mg/kg | 370 | 330 | 10.0 | 30% | Pass | |
| Mercury | S22-Jl0042743 | CP | mg/kg | 0.4 | 0.4 | 6.1 | 30% | Pass | |
| Nickel | S22-Jl0042743 | CP | mg/kg | 9.6 | 8.5 | 13 | 30% | Pass | |
| Zinc | S22-Jl0042743 | CP | mg/kg | 140 | 130 | 7.2 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042763 | CP | % | 12 | 12 | 2.4 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042766 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Cadmium | S22-Jl0042766 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042766 | CP | mg/kg | 15 | 14 | 7.9 | 30% | Pass | |
| Copper | S22-Jl0042766 | CP | mg/kg | 12 | 11 | 11 | 30% | Pass | |
| Lead | S22-Jl0042766 | CP | mg/kg | 32 | 31 | 2.7 | 30% | Pass | |
| Mercury | S22-Jl0042766 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042766 | CP | mg/kg | 7.8 | 6.6 | 17 | 30% | Pass | |
| Zinc | S22-Jl0042766 | CP | mg/kg | 94 | 86 | 9.5 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042767 | CP | mg/kg | < 2 | 2.8 | 44 | 30% | Fail | Q15 |
| Cadmium | S22-Jl0042767 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042767 | CP | mg/kg | 15 | 24 | 44 | 30% | Fail | Q15 |
| Copper | S22-Jl0042767 | CP | mg/kg | 14 | 19 | 29 | 30% | Pass | |
| Lead | S22-Jl0042767 | CP | mg/kg | 29 | 40 | 34 | 30% | Fail | Q15 |
| Mercury | S22-Jl0042767 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042767 | CP | mg/kg | 9.6 | 14 | 34 | 30% | Fail | Q15 |
| Zinc | S22-Jl0042767 | CP | mg/kg | 82 | 97 | 17 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-Jl0042768 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C10-C14 | S22-Jl0042768 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | S22-Jl0042768 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | S22-Jl0042768 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| Naphthalene | S22-Jl0042768 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-Jl0042768 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH >C10-C16 | S22-Jl0042768 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | S22-Jl0042768 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | S22-Jl0042768 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-Jl0042768 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S22-Jl0042768 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S22-Jl0042768 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-Jl0042768 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S22-Jl0042768 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-Jl0042768 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042773 | CP | % | 15 | 15 | 3.0 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042776 | CP | mg/kg | 4.9 | 4.7 | 5.8 | 30% | Pass | |
| Cadmium | S22-Jl0042776 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042776 | CP | mg/kg | 26 | 24 | 8.9 | 30% | Pass | |
| Copper | S22-Jl0042776 | CP | mg/kg | 16 | 16 | 2.2 | 30% | Pass | |
| Lead | S22-Jl0042776 | CP | mg/kg | 34 | 26 | 24 | 30% | Pass | |
| Mercury | S22-Jl0042776 | CP | mg/kg | 0.1 | < 0.1 | 17 | 30% | Pass | |
| Nickel | S22-Jl0042776 | CP | mg/kg | 11 | 10 | 8.1 | 30% | Pass | |
| Zinc | S22-Jl0042776 | CP | mg/kg | 53 | 48 | 11 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-Jl0042783 | CP | % | 3.8 | 4.2 | 9.3 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042791 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Cadmium | S22-Jl0042791 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042791 | CP | mg/kg | 28 | 28 | <1 | 30% | Pass | |
| Copper | S22-Jl0042791 | CP | mg/kg | 13 | 13 | <1 | 30% | Pass | |
| Lead | S22-Jl0042791 | CP | mg/kg | 380 | 390 | 2.8 | 30% | Pass | |
| Mercury | S22-Jl0042791 | CP | mg/kg | 0.2 | 0.2 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042791 | CP | mg/kg | 12 | 12 | <1 | 30% | Pass | |
| Zinc | S22-Jl0042791 | CP | mg/kg | 120 | 120 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0042792 | CP | mg/kg | 3.0 | 2.8 | 5.5 | 30% | Pass | |
| Cadmium | S22-Jl0042792 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-Jl0042792 | CP | mg/kg | 11 | 10 | 11 | 30% | Pass | |
| Copper | S22-Jl0042792 | CP | mg/kg | 10 | 8.5 | 19 | 30% | Pass | |
| Lead | S22-Jl0042792 | CP | mg/kg | 8.9 | 8.3 | 7.2 | 30% | Pass | |
| Mercury | S22-Jl0042792 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-Jl0042792 | CP | mg/kg | 6.8 | 6.2 | 10 | 30% | Pass | |
| Zinc | S22-Jl0042792 | CP | mg/kg | 28 | 25 | 10.0 | 30% | Pass | |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 4.3°C |
| Sample correctly preserved | No |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| G01 | The LORs have been raised due to matrix interference |
| M11 | NATA/IANZ accreditation does not cover the performance of this service. |
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |
| Q15 | The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |

### Authorised by:

| | |
|---|---|
| Emma Beesley | Analytical Services Manager |
| Charl Du Preez | Senior Analyst-Sample Properties |
| Gabriele Cordero | Senior Analyst-Metal |
| Jonathon Angell | Senior Analyst-Organic |
| Laxman Dias | Senior Analyst-Asbestos |
| Maria Tian | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Volatile |
| Ryan Phillips | Senior Analyst-Inorganic |
| Sayeed Abu | Senior Analyst-Asbestos |



**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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**NSW 2060**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 18217**

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**Attention:** **STEVEN DRYSDALE**

**Report** **907569-W**
Project name COWRA DSI
Project ID 30013211
Received Date Jul 15, 2022

| **Client Sample ID** | | | **RINSATE01** | **RINSATE02** | [G01]**RINSATE03** |
|---|---|---|---|---|---|
| **Sample Matrix** | | | **Water** | **Water** | **Water** |
| **Eurofins Sample No.** | | | **S22-JI0042784** | **S22-JI0042785** | **S22-JI0042786** |
| **Date Sampled** | | | **Jul 11, 2022** | **Jul 12, 2022** | **Jul 14, 2022** |
| Test/Reference | LOR | Unit | | | |
| **Total Recoverable Hydrocarbons** | | | | | |
| TRH C6-C9 | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 |
| TRH C10-C14 | 0.05 | mg/L | < 0.05 | < 0.05 | < 0.05 |
| TRH C15-C28 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 |
| TRH C29-C36 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 |
| TRH C10-C36 (Total) | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 |
| Naphthalene[N02] | 0.01 | mg/L | < 0.01 | < 0.01 | < 0.01 |
| TRH C6-C10 | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 |
| TRH C6-C10 less BTEX (F1)[N04] | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 |
| TRH >C10-C16 | 0.05 | mg/L | < 0.05 | < 0.05 | < 0.05 |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 0.05 | mg/L | < 0.05 | < 0.05 | < 0.05 |
| TRH >C16-C34 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 |
| TRH >C34-C40 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 |
| TRH >C10-C40 (total)* | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 |
| **BTEX** | | | | | |
| Benzene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Toluene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| m&p-Xylenes | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.002 |
| o-Xylene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Xylenes - Total* | 0.003 | mg/L | < 0.003 | < 0.003 | < 0.003 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 69 | 68 | 66 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | |
| Acenaphthene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Acenaphthylene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Anthracene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Benz(a)anthracene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Benzo(a)pyrene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Benzo(b&j)fluoranthene[N07] | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Benzo(g.h.i)perylene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Benzo(k)fluoranthene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Chrysene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Dibenz(a.h)anthracene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Fluoranthene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Fluorene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Indeno(1.2.3-cd)pyrene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |

| Client Sample ID | | | RINSATE01 | RINSATE02 | [G01]RINSATE03 |
|---|---|---|---|---|---|
| Sample Matrix | | | Water | Water | Water |
| Eurofins Sample No. | | | S22-JI0042784 | S22-JI0042785 | S22-JI0042786 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | |
| Naphthalene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Phenanthrene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Pyrene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Total PAH* | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 97 | 99 | 113 |
| p-Terphenyl-d14 (surr.) | 1 | % | INT | INT | INT |
| **Organochlorine Pesticides** | | | | | |
| Chlordanes - Total | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.002 |
| 4.4'-DDD | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| 4.4'-DDE | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| 4.4'-DDT | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| a-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Aldrin | 0.0002 | mg/L | < 0.0005 | < 0.0002 | < 0.0005 |
| b-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| d-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Dieldrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Endosulfan I | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Endosulfan II | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Endosulfan sulphate | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Endrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Endrin aldehyde | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Endrin ketone | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| g-HCH (Lindane) | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Heptachlor | 0.0002 | mg/L | < 0.0005 | < 0.0002 | < 0.0005 |
| Heptachlor epoxide | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Hexachlorobenzene | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Methoxychlor | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Toxaphene | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.01 |
| Aldrin and Dieldrin (Total)* | 0.0002 | mg/L | < 0.0005 | < 0.0002 | < 0.0005 |
| DDT + DDE + DDD (Total)* | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0005 |
| Vic EPA IWRG 621 OCP (Total)* | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.002 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.002 |
| Dibutylchlorendate (surr.) | 1 | % | 148 | INT | 148 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 126 | INT | 111 |
| **Organophosphorus Pesticides** | | | | | |
| Azinphos-methyl | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Bolstar | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Chlorfenvinphos | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 |
| Chlorpyrifos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.05 |
| Chlorpyrifos-methyl | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Coumaphos | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.05 |
| Demeton-S | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.05 |
| Demeton-O | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Diazinon | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Dichlorvos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Dimethoate | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Disulfoton | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| EPN | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Ethion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |

| Client Sample ID | | | RINSATE01 | RINSATE02 | [G01]RINSATE03 |
|---|---|---|---|---|---|
| Sample Matrix | | | Water | Water | Water |
| Eurofins Sample No. | | | S22-JI0042784 | S22-JI0042785 | S22-JI0042786 |
| Date Sampled | | | Jul 11, 2022 | Jul 12, 2022 | Jul 14, 2022 |
| Test/Reference | LOR | Unit | | | |
| **Organophosphorus Pesticides** | | | | | |
| Ethoprop | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Ethyl parathion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Fenitrothion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Fensulfothion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Fenthion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Malathion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Merphos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Methyl parathion | 0.002 | mg/L | < 0.005 | < 0.002 | < 0.005 |
| Mevinphos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Monocrotophos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Naled | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Omethoate | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 |
| Phorate | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Pirimiphos-methyl | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.05 |
| Pyrazophos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Ronnel | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Terbufos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Tetrachlorvinphos | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Tokuthion | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Trichloronate | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.005 |
| Triphenylphosphate (surr.) | 1 | % | 130 | INT | 125 |
| **Polychlorinated Biphenyls** | | | | | |
| Aroclor-1016 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Aroclor-1221 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Aroclor-1232 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Aroclor-1242 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Aroclor-1248 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Aroclor-1254 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Aroclor-1260 | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |
| Total PCB* | 0.005 | mg/L | < 0.002 | < 0.005 | < 0.005 |
| Dibutylchlorendate (surr.) | 1 | % | 148 | INT | 148 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 126 | INT | 111 |
| **Heavy Metals** | | | | | |
| Arsenic | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Cadmium | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0002 |
| Chromium | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Copper | 0.001 | mg/L | < 0.001 | < 0.001 | 0.001 |
| Lead | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Mercury | 0.0001 | mg/L | < 0.0001 | < 0.0001 | < 0.0001 |
| Nickel | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 |
| Zinc | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Sydney | Jul 22, 2022 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Eurofins Suite B4 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Polycyclic Aromatic Hydrocarbons | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| Organochlorine Pesticides | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Organophosphorus Pesticides | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | | | |
| Polychlorinated Biphenyls | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Metals M8 | Sydney | Jul 22, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |

eurofins

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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
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**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| **External Laboratory** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BH12/0.0-0.1 | Jul 11, 2022 | | Soil | S22-Jl0042657 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 2 | BH12/0.3-0.5 | Jul 11, 2022 | | Soil | S22-Jl0042658 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 3 | BH12/0.5-0.6 | Jul 11, 2022 | | Soil | S22-Jl0042659 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 4 | BH12/0.9-1.0 | Jul 11, 2022 | | Soil | S22-Jl0042660 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 5 | BH12/1.9-2.0 | Jul 11, 2022 | | Soil | S22-Jl0042661 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 6 | SS46/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042662 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 7 | SS45/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042663 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 8 | SS45/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042664 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 9 | SS52/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042665 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 10 | SS53/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042666 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 11 | SS53/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042667 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 12 | SS54/0.00-0.05 | Jul 11, 2022 | | Soil | S22-Jl0042668 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 13 | BH29/0.1-0.2 | Jul 11, 2022 | | Soil | S22-Jl0042669 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 14 | BH29/0.5-0.6 | Jul 12, 2022 | | Soil | S22-Jl0042670 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 15 | BH29/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042671 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 16 | BH29/2.0-2.5 ENM | Jul 12, 2022 | | Soil | S22-Jl0042672 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 17 | HA39/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042673 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 18 | HA39/0.3-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042674 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 19 | BH32/0.4-0.5 | Jul 12, 2022 | | Soil | S22-Jl0042675 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 20 | BH32/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042676 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 21 | BH32/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042677 | | | | | | | | | | | | | | | | | X | | | X | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 22 | HA31/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042678 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 23 | SS55/0.00-0.05 | Jul 12, 2022 | | Soil | S22-Jl0042679 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 24 | SS55/0.15-0.20 | Jul 12, 2022 | | Soil | S22-Jl0042680 | | | | | | | | | | | | X | | | | | X | | | X | | | | |
| 25 | BH30/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042681 | | X | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 26 | BH30/0.4-0.6 ENM | Jul 12, 2022 | | Soil | S22-Jl0042682 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 27 | BH30/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042683 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 28 | BH30/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042684 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 29 | BH33/0.3-0.4 | Jul 12, 2022 | | Soil | S22-Jl0042685 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 30 | BH33/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042686 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 31 | HA40/0.15-0.25 | Jul 12, 2022 | | Soil | S22-Jl0042687 | | X | | | | | | | | | | | | | | | X | | X | | | | | |
| 32 | TP28/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042688 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 33 | TP28/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042689 | | | | | | | | | | | | X | | | | | X | X | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 34 | TP28/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042690 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 35 | TP11/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042691 | X | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 36 | TP11/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042692 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 37 | TP11/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042693 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 38 | TP20/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042694 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 39 | TP20/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042695 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 40 | TP20/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042696 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 41 | TP20/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042697 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 42 | TP20/2.4-2.5 | Jul 13, 2022 | | Soil | S22-Jl0042698 | | X | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 43 | TP13/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042699 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 44 | TP13/0.25-0.35 | Jul 13, 2022 | | Soil | S22-Jl0042700 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 45 | TP13/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042701 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |

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| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 46 | TP14/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042702 | | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 47 | TP14/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042703 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 48 | TP14/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042704 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 49 | TP14/0.5 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042705 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 50 | TP19/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042706 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 51 | TP19/0.2 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042707 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 52 | TP19/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042708 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 53 | TP19/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042709 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 54 | TP19/0.3-0.4 ACM | Jul 13, 2022 | | Building Materials | S22-Jl0042710 | | | X | | | | | | | | | | | | | | | | | | | | | |
| 55 | TP19/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042711 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 56 | TP19/1.2-1.3 | Jul 13, 2022 | | Soil | S22-Jl0042712 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 57 | TP16/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042713 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 58 | TP16/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042714 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 59 | TP16/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042715 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 60 | TP16/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042716 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 61 | TP15/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042717 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 62 | TP15/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042718 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 63 | TP15/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042719 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 64 | TP15/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042720 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 65 | TP18/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042721 | X | | | | | | | X | | X | | | | | | | X | | | X | | | | |
| 66 | TP18/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042722 | | X | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 67 | TP18/0.4-0.5 ENM | Jul 13, 2022 | | Soil | S22-Jl0042723 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 68 | TP18/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042724 | | | | | | | | | | | X | | | | | | X | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 69 | TP17/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042725 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 70 | TP17/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042726 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | TP17/0.0-0.2 ENM | Jul 13, 2022 | | Soil | S22-Jl0042727 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 72 | TP23/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042728 | | | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 73 | TP23/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042729 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | TP23/0.20-0.25 | Jul 13, 2022 | | Soil | S22-Jl0042730 | | | | | | | | | | | | | | | | | X | | X | | | | | | |
| 75 | TP23/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042731 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |
| 76 | TP23/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042732 | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | TP23/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042733 | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 78 | TP24/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042734 | X | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 79 | TP24/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042735 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 80 | TP24/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042736 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 81 | TP24/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042737 | | | | X | | | | | | | | | | | | | | | | | | | | |
| 82 | TP27/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042738 | X | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 83 | TP27/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042739 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 84 | TP27/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042740 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 85 | TP27/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042741 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 86 | TP26/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042742 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 87 | TP26/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042743 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 88 | TP26/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042744 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 89 | TP25/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042745 | X | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 90 | TP25/0.3-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042746 | | | | | | | | | | | | | | X | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 91 | TP25/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042747 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 92 | TP21/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042748 | | X | | | | | | X | | X | | | | | | | X | | | | | | | | |
| 93 | TP21/0.2-0.3 | Jul 13, 2022 | | Soil | S22-Jl0042749 | | | | | | | | | | | | | | | | | X | | X | | | | | |
| 94 | TP21/0.2-0.3 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042750 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 95 | TP21/0.2-0.3 ENM | Jul 13, 2022 | | Soil | S22-Jl0042751 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 96 | TP22/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042752 | | | | | | X | | | X | | | X | | | | | X | X | | | | | | |
| 97 | TP22/0.0-0.1 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042753 | | X | | | | | | | | | | | | | | | | | | | | | | |
| 98 | TP22/0.0-0.1 ENM | Jul 13, 2022 | | Soil | S22-Jl0042754 | | | | | | | | | | | | | | X | | | | | | | | | | |
| 99 | TP22/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042755 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 100 | HA36/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042756 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 101 | HA36/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042757 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 102 | HA37/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042758 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 103 | HA37/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042759 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 104 | HA38/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042760 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 105 | HA38/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042761 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 106 | HA34/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042762 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 107 | HA34/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042763 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 108 | HA35/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042764 | X | | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 109 | HA35/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042765 | | | | | | | | | | | | X | | | | | X | X | | | | | | |
| 110 | SS47/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042766 | | X | | | | | | | | | | X | | | X | X | X | X | | | | | | |
| 111 | SS48/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042767 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 112 | SS48/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042768 | | X | | | | | | | | | | X | | | | | X | X | | | | | | |
| 113 | SS50/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042769 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 114 | SS51/0.00- | Jul 14, 2022 | | Soil | S22-Jl0042770 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | SS51/0.05-0.10 | Jul 14, 2022 | | Soil | S22-Jl0042771 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 116 | HA41/0..0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042772 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 117 | HA41/0.4-0.5 | Jul 14, 2022 | | Soil | S22-Jl0042773 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 118 | SS49/0.00-0.05 | Jul 14, 2022 | | Soil | S22-Jl0042774 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 119 | SS49/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042775 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 120 | HA44/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042776 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 121 | HA44/0.2-0.3 | Jul 14, 2022 | | Soil | S22-Jl0042777 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 122 | HA43/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042778 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 123 | HA43/0.3-0.4 | Jul 14, 2022 | | Soil | S22-Jl0042779 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 124 | HA42/0.0-0.1 | Jul 14, 2022 | | Soil | S22-Jl0042780 | | X | | | | | | X | | X | | | | | | | X | | | | | | | |
| 125 | COWRA_EIL | Jul 14, 2022 | | Soil | S22-Jl0042781 | | | | | | | | | | | | | X | | | | X | | | | | | | |
| 126 | CT01 | Jul 14, 2022 | | Soil | S22-Jl0042782 | | | | | X | | | | | | | | | | | | X | | | | | | | |

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**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 127 | CT02 | Jul 14, 2022 | | Soil | S22-Jl0042783 | | | | | X | | | | | | | | | | | | X | | | | | | | |
| 128 | RINSATE01 | Jul 11, 2022 | | Water | S22-Jl0042784 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 129 | RINSATE02 | Jul 12, 2022 | | Water | S22-Jl0042785 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 130 | RINSATE03 | Jul 14, 2022 | | Water | S22-Jl0042786 | | | | | | | | | | | | X | | | | | | X | | | | | | |
| 131 | QA01 | Jul 11, 2022 | | Soil | S22-Jl0042787 | | | | | | | | | | | | X | | | | | X | X | | | | | | | |
| 132 | QA02 | Jul 12, 2022 | | Soil | S22-Jl0042788 | | | | | | | | | | | | | | | X | X | X | | X | | | | | |
| 133 | QA03 | Jul 12, 2022 | | Soil | S22-Jl0042789 | | | | | | | | | | | | | | | | | X | | | X | | | | |
| 134 | QA04 | Jul 13, 2022 | | Soil | S22-Jl0042790 | | | | | | | | | | | | X | | | | | X | X | | | | | X | X |
| 135 | QA06 | Jul 13, 2022 | | Soil | S22-Jl0042791 | | | | | | X | | | X | | | | | | | | X | | X | | | | | |
| 136 | QA08 | Jul 14, 2022 | | Soil | S22-Jl0042792 | | | | | | | | X | | X | | | | | | | X | | | | | | | |
| 137 | SOIL TRIP SPIKE | Jun 30, 2022 | | Soil | S22-Jl0042793 | | | | | | | | | | | | | | | | | | | | | | X | | |
| 138 | SOIL TRIP BLANK | Jun 30, 2022 | | Soil | S22-Jl0042794 | | | | | | | | | | | | | | | | | | | | | X | | | |
| 139 | TP14/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042795 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 140 | TP19/0.3-0.4 M | Jul 13, 2022 | | Soil | S22-Jl0042796 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 141 | BH12/2.9-3.0 | Jul 11, 2022 | | Soil | S22-Jl0042797 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 142 | BH12/3.9-4.0 | Jul 11, 2022 | | Soil | S22-Jl0042798 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 143 | BH12/4.9-5.0 | Jul 11, 2022 | | Soil | S22-Jl0042799 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 144 | SS46/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042800 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 145 | SS52/0.10-0.15 | Jul 11, 2022 | | Soil | S22-Jl0042801 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 146 | SS54/0.15-0.20 | Jul 11, 2022 | | Soil | S22-Jl0042802 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 147 | BH29/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042803 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 148 | BH29/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042804 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 149 | BH29/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042805 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 150 | BH29/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042806 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 151 | BH29/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042807 | | | | | | | X | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 152 | BH29/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042808 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 153 | BH32/0.1-0.2 | Jul 12, 2022 | | Soil | S22-Jl0042809 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 154 | BH32/0.6-0.7 | Jul 12, 2022 | | Soil | S22-Jl0042810 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 155 | BH32/1.0-1.1 | Jul 12, 2022 | | Soil | S22-Jl0042811 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 156 | BH32/2.9-3.0 | Jul 12, 2022 | | Soil | S22-Jl0042812 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 157 | BH32/4.9-5.0 | Jul 12, 2022 | | Soil | S22-Jl0042813 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 158 | BH32/5.9-6.0 | Jul 12, 2022 | | Soil | S22-Jl0042814 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 159 | BH32/6.9-7.0 | Jul 12, 2022 | | Soil | S22-Jl0042815 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 160 | BH30/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042816 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 161 | BH30/0.9-1.0 | Jul 12, 2022 | | Soil | S22-Jl0042817 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 162 | BH30/3.9-4.0 | Jul 12, 2022 | | Soil | S22-Jl0042818 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 163 | BH33/0.0-0.1 | Jul 12, 2022 | | Soil | S22-Jl0042819 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 164 | BH33/1.9-2.0 | Jul 12, 2022 | | Soil | S22-Jl0042820 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 165 | TP28/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042821 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 166 | TP11/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042822 | | | | | | | X | | | | | | | | | | | | | | | | | |

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**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907569
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 15, 2022 12:30 PM
**Due:** Jul 25, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Asbestos - AS4964 | Asbestos - WA guidelines | Asbestos Absence /Presence | CANCELLED | Coal Tar in Asphalt* | Conductivity (1:5 aqueous extract at 25 °C as rec.) | HOLD | Lead | pH (1:5 Aqueous extract at 25 °C as rec.) | Zinc | Polycyclic Aromatic Hydrocarbons | Polychlorinated Biphenyls | Metals M8 | Foreign Materials - ENM | Volatile Organics | Halogenated Volatile Organics | Moisture Set | Eurofins Suite B10 | Eurofins Suite B7 | Eurofins Suite B4 | BTEXN and Volatile TRH | BTEX | Dioxin-like Polychlorinated biphenyl (DL-PCBs) | Polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans(PCDFs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 167 | TP11/0.5-0.6 ENM | Jul 13, 2022 | | Soil | S22-Jl0042823 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 168 | TP20/1.9-2.0 | Jul 13, 2022 | | Soil | S22-Jl0042824 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 169 | TP13/0.2-0.4 ENM | Jul 13, 2022 | | Soil | S22-Jl0042825 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 170 | TP13/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042826 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 171 | TP14/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042827 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 172 | TP14/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042828 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 173 | TP15/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042829 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 174 | TP17/0.3-0.4 | Jul 13, 2022 | | Soil | S22-Jl0042830 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 175 | TP17/0.7-0.8 | Jul 13, 2022 | | Soil | S22-Jl0042831 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 176 | TP23/0.6-0.7 | Jul 13, 2022 | | Soil | S22-Jl0042832 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 177 | TP24/0.9-1.0 | Jul 13, 2022 | | Soil | S22-Jl0042833 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 178 | TP27/1.0-1.1 | Jul 13, 2022 | | Soil | S22-Jl0042834 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 179 | TP26/0.1-0.2 | Jul 13, 2022 | | Soil | S22-Jl0042835 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| 180 | TP26/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042836 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 181 | TP25/0.0-0.1 | Jul 13, 2022 | | Soil | S22-Jl0042837 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 182 | TP25/0.3-0.4 SOIL | Jul 13, 2022 | | Soil | S22-Jl0042838 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 183 | TP25/0.8-0.9 | Jul 13, 2022 | | Soil | S22-Jl0042839 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 184 | TP21/0.4-0.5 | Jul 13, 2022 | | Soil | S22-Jl0042840 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 185 | TP22/0.5-0.6 | Jul 13, 2022 | | Soil | S22-Jl0042841 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 186 | SS50/0.15-0.20 | Jul 14, 2022 | | Soil | S22-Jl0042842 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 187 | QA05 | Jul 13, 2022 | | Soil | S22-Jl0042843 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 188 | QA07 | Jul 14, 2022 | | Soil | S22-Jl0042844 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 189 | EXTRA TP13/0.5-0.6 JAR | Jul 11, 2022 | | Soil | S22-Jl0043103 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 190 | EXTRA BH33/0.4-0.6 | Jun 30, 2022 | | Soil | S22-Jl0044245 | | | | | | | X | | | | | | | | | | | | | | | | | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| | BH33/0.4-0.6 ENM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | EXTRA TP19/0.4-0.5 ENM | Jun 30, 2022 | | Soil | S22-Jl0044246 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 192 | DUPLICATE TP27/0.0-0.1 BAG | Jul 13, 2022 | | Soil | S22-Jl0044247 | | | | | | | X | | | | | | | | | | | | | | | | | |
| 193 | EXTRA SS46/0.00-0.15 BG (ASBPA QUANT.) | Jul 11, 2022 | | Soil | S22-Jl0044248 | | | | | | | X | | | | | | | | | | | | | | | | | |
| **Test Counts** | | | | | | 8 | 55 | 4 | 1 | 3 | 12 | 55 | 35 | 12 | 35 | 2 | 41 | 1 | 11 | 7 | 7 | 103 | 39 | 14 | 14 | 1 | 1 | 4 | 4 |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

**mg/kg:** milligrams per kilogram
**mg/L:** milligrams per litre
**µg/L:** micrograms per litre
**ppm:** parts per million
**ppb:** parts per billion
**%:** Percentage
**org/100 mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **COC** | Chain of Custody |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **CRM** | Certified Reference Material (ISO17034) - reported as percent recovery. |
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **LOR** | Limit of Reporting. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **Method Blank** | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| **NCP** | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **SRA** | Sample Receipt Advice |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **TBTO** | Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **TEQ** | Toxic Equivalency Quotient or Total Equivalence |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **US EPA** | United States Environmental Protection Agency |
| **WA DWER** | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | mg/L | < 0.02 | | | 0.02 | Pass | |
| TRH C10-C14 | mg/L | < 0.05 | | | 0.05 | Pass | |
| TRH C15-C28 | mg/L | < 0.1 | | | 0.1 | Pass | |
| TRH C29-C36 | mg/L | < 0.1 | | | 0.1 | Pass | |
| Naphthalene | mg/L | < 0.01 | | | 0.01 | Pass | |
| TRH C6-C10 | mg/L | < 0.02 | | | 0.02 | Pass | |
| TRH >C10-C16 | mg/L | < 0.05 | | | 0.05 | Pass | |
| TRH >C16-C34 | mg/L | < 0.1 | | | 0.1 | Pass | |
| TRH >C34-C40 | mg/L | < 0.1 | | | 0.1 | Pass | |
| **Method Blank** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Toluene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Ethylbenzene | mg/L | < 0.001 | | | 0.001 | Pass | |
| m&p-Xylenes | mg/L | < 0.002 | | | 0.002 | Pass | |
| o-Xylene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Xylenes - Total* | mg/L | < 0.003 | | | 0.003 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Acenaphthylene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Anthracene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benz(a)anthracene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(a)pyrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(b&j)fluoranthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(g.h.i)perylene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(k)fluoranthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Chrysene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Dibenz(a.h)anthracene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Fluoranthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Fluorene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Naphthalene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Phenanthrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Pyrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/L | < 0.002 | | | 0.002 | Pass | |
| 4.4'-DDD | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| 4.4'-DDE | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| 4.4'-DDT | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| a-HCH | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Aldrin | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| b-HCH | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| d-HCH | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Dieldrin | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan I | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan II | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan sulphate | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin | mg/L | < 0.0002 | | | 0.0002 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin ketone | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| g-HCH (Lindane) | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Heptachlor | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Heptachlor epoxide | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Hexachlorobenzene | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Methoxychlor | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Toxaphene | mg/L | < 0.005 | | | 0.005 | Pass | |
| **Method Blank** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Azinphos-methyl | mg/L | < 0.002 | | | 0.002 | Pass | |
| Bolstar | mg/L | < 0.002 | | | 0.002 | Pass | |
| Chlorfenvinphos | mg/L | < 0.02 | | | 0.02 | Pass | |
| Chlorpyrifos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Chlorpyrifos-methyl | mg/L | < 0.002 | | | 0.002 | Pass | |
| Coumaphos | mg/L | < 0.02 | | | 0.02 | Pass | |
| Demeton-S | mg/L | < 0.002 | | | 0.002 | Pass | |
| Demeton-O | mg/L | < 0.002 | | | 0.002 | Pass | |
| Diazinon | mg/L | < 0.002 | | | 0.002 | Pass | |
| Dichlorvos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Dimethoate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Disulfoton | mg/L | < 0.002 | | | 0.002 | Pass | |
| EPN | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethoprop | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethyl parathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fenitrothion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fensulfothion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fenthion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Malathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Merphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Methyl parathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Mevinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Monocrotophos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Naled | mg/L | < 0.002 | | | 0.002 | Pass | |
| Omethoate | mg/L | < 0.02 | | | 0.02 | Pass | |
| Phorate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Pirimiphos-methyl | mg/L | < 0.02 | | | 0.02 | Pass | |
| Pyrazophos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ronnel | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbufos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Tetrachlorvinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Tokuthion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Trichloronate | mg/L | < 0.002 | | | 0.002 | Pass | |
| **Method Blank** | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| Aroclor-1016 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Aroclor-1221 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Aroclor-1232 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Aroclor-1242 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Aroclor-1248 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Aroclor-1254 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Aroclor-1260 | mg/L | < 0.005 | | | 0.005 | Pass | |
| Total PCB* | mg/L | < 0.005 | | | 0.005 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Cadmium | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | % | 91 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 114 | | | 70-130 | Pass | |
| Naphthalene | % | 82 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 92 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 115 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | % | 83 | | | 70-130 | Pass | |
| Toluene | % | 95 | | | 70-130 | Pass | |
| Ethylbenzene | % | 89 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 106 | | | 70-130 | Pass | |
| o-Xylene | % | 85 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 99 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthylene | % | 84 | | | 70-130 | Pass | |
| Anthracene | % | 75 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 75 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 71 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 80 | | | 70-130 | Pass | |
| Chrysene | % | 76 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 75 | | | 70-130 | Pass | |
| Fluorene | % | 71 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Endrin | % | 75 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Dimethoate | % | 79 | | | 70-130 | Pass | |
| Mevinphos | % | 73 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Cadmium | % | 95 | | | 80-120 | Pass | |
| Mercury | % | 98 | | | 80-120 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | S22-Jl0032856 | NCP | % | 78 | | | 70-130 | Pass | |
| TRH C10-C14 | N22-Jl0039680 | NCP | % | 111 | | | 70-130 | Pass | |
| Naphthalene | S22-Jl0032856 | NCP | % | 83 | | | 70-130 | Pass | |
| TRH C6-C10 | S22-Jl0032856 | NCP | % | 76 | | | 70-130 | Pass | |
| TRH >C10-C16 | N22-Jl0039680 | NCP | % | 109 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | S22-Jl0032856 | NCP | % | 78 | | | 70-130 | Pass | |
| Toluene | S22-Jl0032856 | NCP | % | 89 | | | 70-130 | Pass | |
| Ethylbenzene | S22-Jl0032856 | NCP | % | 82 | | | 70-130 | Pass | |
| m&p-Xylenes | S22-Jl0032856 | NCP | % | 99 | | | 70-130 | Pass | |
| o-Xylene | S22-Jl0032856 | NCP | % | 80 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes - Total* | S22-Jl0032856 | NCP | % | 92 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | | | | | |
| Acenaphthene | S22-Jl0042786 | CP | % | 77 | | | 70-130 | Pass | |
| Acenaphthylene | S22-Jl0042786 | CP | % | 106 | | | 70-130 | Pass | |
| Anthracene | S22-Jl0042786 | CP | % | 94 | | | 70-130 | Pass | |
| Benz(a)anthracene | S22-Jl0042786 | CP | % | 74 | | | 70-130 | Pass | |
| Benzo(a)pyrene | S22-Jl0042786 | CP | % | 88 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | S22-Jl0042786 | CP | % | 84 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | S22-Jl0042786 | CP | % | 71 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | S22-Jl0042786 | CP | % | 98 | | | 70-130 | Pass | |
| Chrysene | S22-Jl0042786 | CP | % | 87 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | S22-Jl0042786 | CP | % | 72 | | | 70-130 | Pass | |
| Fluoranthene | S22-Jl0042786 | CP | % | 77 | | | 70-130 | Pass | |
| Fluorene | S22-Jl0042786 | CP | % | 86 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | S22-Jl0042786 | CP | % | 75 | | | 70-130 | Pass | |
| Phenanthrene | S22-Jl0042786 | CP | % | 78 | | | 70-130 | Pass | |
| Pyrene | S22-Jl0042786 | CP | % | 77 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | S22-Jl0042786 | CP | % | 71 | | | 70-130 | Pass | |
| 4.4'-DDE | S22-Jl0042786 | CP | % | 72 | | | 70-130 | Pass | |
| 4.4'-DDT | S22-Jl0042786 | CP | % | 70 | | | 70-130 | Pass | |
| Aldrin | S22-Jl0042786 | CP | % | 74 | | | 70-130 | Pass | |
| b-HCH | S22-Jl0042786 | CP | % | 77 | | | 70-130 | Pass | |
| d-HCH | S22-Jl0042786 | CP | % | 76 | | | 70-130 | Pass | |
| Dieldrin | S22-Jl0042786 | CP | % | 97 | | | 70-130 | Pass | |
| Endrin | S22-Jl0042786 | CP | % | 117 | | | 70-130 | Pass | |
| g-HCH (Lindane) | S22-Jl0042786 | CP | % | 73 | | | 70-130 | Pass | |
| Heptachlor | S22-Jl0042786 | CP | % | 75 | | | 70-130 | Pass | |
| Heptachlor epoxide | S22-Jl0042786 | CP | % | 98 | | | 70-130 | Pass | |
| Hexachlorobenzene | S22-Jl0042786 | CP | % | 83 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Organophosphorus Pesticides** | | | | Result 1 | | | | | |
| Diazinon | S22-Jl0042786 | CP | % | 78 | | | 70-130 | Pass | |
| Dimethoate | S22-Jl0042786 | CP | % | 72 | | | 70-130 | Pass | |
| Fenitrothion | S22-Jl0042786 | CP | % | 98 | | | 70-130 | Pass | |
| Methyl parathion | S22-Jl0042786 | CP | % | 77 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | Result 1 | | | | | |
| Aroclor-1016 | S22-Jl0042786 | CP | % | 71 | | | 70-130 | Pass | |
| Aroclor-1260 | S22-Jl0042786 | CP | % | 84 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S22-Jl0042786 | CP | % | 96 | | | 75-125 | Pass | |
| Cadmium | S22-Jl0042786 | CP | % | 102 | | | 75-125 | Pass | |
| Chromium | S22-Jl0042786 | CP | % | 92 | | | 75-125 | Pass | |
| Copper | S22-Jl0042786 | CP | % | 90 | | | 75-125 | Pass | |
| Lead | S22-Jl0042786 | CP | % | 91 | | | 75-125 | Pass | |
| Mercury | S22-Jl0042786 | CP | % | 91 | | | 75-125 | Pass | |
| Nickel | S22-Jl0042786 | CP | % | 91 | | | 75-125 | Pass | |
| Zinc | S22-Jl0042786 | CP | % | 94 | | | 75-125 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-Jl0036560 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| TRH C10-C14 | S22-Jl0042784 | CP | mg/L | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| TRH C15-C28 | S22-Jl0042784 | CP | mg/L | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| TRH C29-C36 | S22-Jl0042784 | CP | mg/L | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Naphthalene | S22-Jl0036560 | NCP | mg/L | < 0.01 | < 0.01 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-Jl0036560 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| TRH >C10-C16 | S22-Jl0042784 | CP | mg/L | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| TRH >C16-C34 | S22-Jl0042784 | CP | mg/L | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| TRH >C34-C40 | S22-Jl0042784 | CP | mg/L | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-Jl0036560 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Toluene | S22-Jl0036560 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Ethylbenzene | S22-Jl0036560 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-Jl0036560 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| o-Xylene | S22-Jl0036560 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-Jl0036560 | NCP | mg/L | < 0.003 | < 0.003 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-Jl0039198 | NCP | mg/L | 0.002 | 0.002 | 11 | 30% | Pass | |
| Cadmium | S22-Jl0039198 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Chromium | S22-Jl0039198 | NCP | mg/L | 0.003 | 0.003 | 12 | 30% | Pass | |
| Copper | S22-Jl0039198 | NCP | mg/L | 0.003 | 0.003 | 7.5 | 30% | Pass | |
| Lead | S22-Jl0039198 | NCP | mg/L | 0.001 | 0.001 | 11 | 30% | Pass | |
| Mercury | S22-Jl0039198 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Nickel | S22-Jl0039198 | NCP | mg/L | 0.019 | 0.020 | 4.4 | 30% | Pass | |
| Zinc | S22-Jl0039198 | NCP | mg/L | 0.044 | 0.046 | 5.7 | 30% | Pass | |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 4.3°C |
| Sample correctly preserved | No |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| G01 | The LORs have been raised due to matrix interference |
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |

### Authorised by:

| | |
|---|---|
| Emma Beesley | Analytical Services Manager |
| Charl Du Preez | Senior Analyst-Organic |
| Gabriele Cordero | Senior Analyst-Metal |
| Roopesh Rangarajan | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Volatile |



**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

ALS Environmental

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2225933** | Page | : 1 of 7 |
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Contact | : Katie Davis |
| Address | : Level 5, 20 Berry Street, North Sydney, NSW 2060 North Sydney 2060 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Project | : 30013211 Cowra DSI | Date Samples Received | : 22-Jul-2022 14:30 |
| Order number | : 30013211 | Date Analysis Commenced | : 25-Jul-2022 |
| C-O-C number | : ---- | Issue Date | : 29-Jul-2022 16:31 |
| Sampler | : Pauline Voukidis | | |
| Site | : ---- | | |
| Quote number | : EN/025/21 | | |
| No. of samples received | : 7 | | |
| No. of samples analysed | : 5 | | |

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

**Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.**

## *Signatories*

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Ankit Joshi | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |

## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Sample ID | QA01A | QA02A | QA03A | QA04A | QA08A |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sampling date / time | 11-Jul-2022 00:00 | 12-Jul-2022 00:00 | 12-Jul-2022 00:00 | 13-Jul-2022 00:00 | 14-Jul-2022 00:00 |
| Compound | CAS Number | LOR | Unit | | ES2225933-001 | ES2225933-002 | ES2225933-003 | ES2225933-004 | ES2225933-007 |
| | | | | | Result | Result | Result | Result | Result |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | | | | |
| Moisture Content | ---- | 0.1 | % | | ---- | ---- | ---- | ---- | 8.9 |
| Moisture Content | ---- | 1.0 | % | | 14.6 | 10.6 | 2.2 | 36.1 | ---- |
| **EG005(ED093)T: Total Metals by ICP-AES** | | | | | | | | | |
| Arsenic | 7440-38-2 | 5 | mg/kg | | <5 | <5 | ---- | <5 | ---- |
| Cadmium | 7440-43-9 | 1 | mg/kg | | <1 | <1 | ---- | <1 | ---- |
| Chromium | 7440-47-3 | 2 | mg/kg | | 36 | 28 | ---- | 6 | ---- |
| Copper | 7440-50-8 | 5 | mg/kg | | 13 | 10 | ---- | 11 | ---- |
| Lead | 7439-92-1 | 5 | mg/kg | | 29 | 21 | ---- | 18 | 10 |
| Nickel | 7440-02-0 | 2 | mg/kg | | 11 | 11 | ---- | 4 | ---- |
| Zinc | 7440-66-6 | 5 | mg/kg | | 35 | 50 | ---- | 98 | 23 |
| **EG035T: Total Recoverable Mercury by FIMS** | | | | | | | | | |
| Mercury | 7439-97-6 | 0.1 | mg/kg | | <0.1 | <0.1 | ---- | <0.1 | ---- |
| **EP066: Polychlorinated Biphenyls (PCB)** | | | | | | | | | |
| Total Polychlorinated biphenyls | ---- | 0.1 | mg/kg | | <0.1 | ---- | ---- | <0.1 | ---- |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | | | | |
| alpha-BHC | 319-84-6 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| beta-BHC | 319-85-7 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| gamma-BHC | 58-89-9 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| delta-BHC | 319-86-8 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Heptachlor | 76-44-8 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Aldrin | 309-00-2 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| ^ Total Chlordane (sum) | ---- | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Dieldrin | 60-57-1 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Endrin | 72-20-8 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| ^ Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |
| Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | | <0.05 | ---- | ---- | <0.05 | ---- |

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QA01A | QA02A | QA03A | QA04A | QA08A |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 11-Jul-2022 00:00 | 12-Jul-2022 00:00 | 12-Jul-2022 00:00 | 13-Jul-2022 00:00 | 14-Jul-2022 00:00 |
| Compound | CAS Number | LOR | Unit | ES2225933-001 | ES2225933-002 | ES2225933-003 | ES2225933-004 | ES2225933-007 |
| | | | | Result | Result | Result | Result | Result |
| **EP068A: Organochlorine Pesticides (OC) - Continued** | | | | | | | | |
| Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | ---- | ---- | <0.2 | ---- |
| Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | ---- | ---- | <0.2 | ---- |
| ^ Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| ^ Sum of DDD + DDE + DDT | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| **EP068B: Organophosphorus Pesticides (OP)** | | | | | | | | |
| Dichlorvos | 62-73-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Demeton-S-methyl | 919-86-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Monocrotophos | 6923-22-4 | 0.2 | mg/kg | <0.2 | ---- | ---- | <0.2 | ---- |
| Dimethoate | 60-51-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Diazinon | 333-41-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Chlorpyrifos-methyl | 5598-13-0 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Parathion-methyl | 298-00-0 | 0.2 | mg/kg | <0.2 | ---- | ---- | <0.2 | ---- |
| Malathion | 121-75-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Fenthion | 55-38-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Chlorpyrifos | 2921-88-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Parathion | 56-38-2 | 0.2 | mg/kg | <0.2 | ---- | ---- | <0.2 | ---- |
| Pirimphos-ethyl | 23505-41-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Chlorfenvinphos | 470-90-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Bromophos-ethyl | 4824-78-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Fenamiphos | 22224-92-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Prothiofos | 34643-46-4 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Ethion | 563-12-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Carbophenothion | 786-19-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| Azinphos Methyl | 86-50-0 | 0.05 | mg/kg | <0.05 | ---- | ---- | <0.05 | ---- |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons** | | | | | | | | |
| Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QA01A | QA02A | QA03A | QA04A | QA08A |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 11-Jul-2022 00:00 | 12-Jul-2022 00:00 | 12-Jul-2022 00:00 | 13-Jul-2022 00:00 | 14-Jul-2022 00:00 |
| Compound | CAS Number | LOR | Unit | ES2225933-001 | ES2225933-002 | ES2225933-003 | ES2225933-004 | ES2225933-007 |
| | | | | Result | Result | Result | Result | Result |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued** | | | | | | | | |
| Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| ^ Sum of polycyclic aromatic hydrocarbons | ---- | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| ^ Benzo(a)pyrene TEQ (zero) | ---- | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| ^ Benzo(a)pyrene TEQ (half LOR) | ---- | 0.5 | mg/kg | **0.6** | **0.6** | **0.6** | **0.6** | ---- |
| ^ Benzo(a)pyrene TEQ (LOR) | ---- | 0.5 | mg/kg | **1.2** | **1.2** | **1.2** | **1.2** | ---- |
| **EP080/071: Total Petroleum Hydrocarbons** | | | | | | | | |
| C6 - C9 Fraction | ---- | 10 | mg/kg | <10 | <10 | <10 | <10 | ---- |
| C10 - C14 Fraction | ---- | 50 | mg/kg | <50 | <50 | <50 | <50 | ---- |
| C15 - C28 Fraction | ---- | 100 | mg/kg | <100 | <100 | <100 | <100 | ---- |
| C29 - C36 Fraction | ---- | 100 | mg/kg | <100 | <100 | <100 | <100 | ---- |
| ^ C10 - C36 Fraction (sum) | ---- | 50 | mg/kg | <50 | <50 | <50 | <50 | ---- |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions** | | | | | | | | |
| C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | <10 | <10 | ---- |
| ^ C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10 | mg/kg | <10 | <10 | <10 | <10 | ---- |
| >C10 - C16 Fraction | ---- | 50 | mg/kg | <50 | <50 | <50 | <50 | ---- |
| >C16 - C34 Fraction | ---- | 100 | mg/kg | <100 | <100 | <100 | <100 | ---- |
| >C34 - C40 Fraction | ---- | 100 | mg/kg | <100 | <100 | <100 | <100 | ---- |
| ^ >C10 - C40 Fraction (sum) | ---- | 50 | mg/kg | <50 | <50 | <50 | <50 | ---- |
| ^ >C10 - C16 Fraction minus Naphthalene (F2) | ---- | 50 | mg/kg | <50 | <50 | <50 | <50 | ---- |
| **EP080: BTEXN** | | | | | | | | |
| Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | ---- |
| Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| meta- & para-Xylene | 108-38-3 106-42-3 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QA01A | QA02A | QA03A | QA04A | QA08A |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 11-Jul-2022 00:00 | 12-Jul-2022 00:00 | 12-Jul-2022 00:00 | 13-Jul-2022 00:00 | 14-Jul-2022 00:00 |
| Compound | CAS Number | LOR | Unit | ES2225933-001 | ES2225933-002 | ES2225933-003 | ES2225933-004 | ES2225933-007 |
| | | | | Result | Result | Result | Result | Result |
| **EP080: BTEXN - Continued** | | | | | | | | |
| ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| ^ Sum of BTEX | ---- | 0.2 | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | ---- |
| ^ Total Xylenes | ---- | 0.5 | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | ---- |
| Naphthalene | 91-20-3 | 1 | mg/kg | <1 | <1 | <1 | <1 | ---- |
| **EP066S: PCB Surrogate** | | | | | | | | |
| Decachlorobiphenyl | 2051-24-3 | 0.1 | % | **91.0** | ---- | ---- | **98.6** | ---- |
| **EP068S: Organochlorine Pesticide Surrogate** | | | | | | | | |
| Dibromo-DDE | 21655-73-2 | 0.05 | % | **72.8** | ---- | ---- | **82.7** | ---- |
| **EP068T: Organophosphorus Pesticide Surrogate** | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | **94.3** | ---- | ---- | **95.4** | ---- |
| **EP075(SIM)S: Phenolic Compound Surrogates** | | | | | | | | |
| Phenol-d6 | 13127-88-3 | 0.5 | % | **75.6** | **81.0** | **83.8** | **78.7** | ---- |
| 2-Chlorophenol-D4 | 93951-73-6 | 0.5 | % | **89.2** | **94.5** | **97.4** | **94.1** | ---- |
| 2.4.6-Tribromophenol | 118-79-6 | 0.5 | % | **74.6** | **73.3** | **72.1** | **75.1** | ---- |
| **EP075(SIM)T: PAH Surrogates** | | | | | | | | |
| 2-Fluorobiphenyl | 321-60-8 | 0.5 | % | **103** | **104** | **108** | **108** | ---- |
| Anthracene-d10 | 1719-06-8 | 0.5 | % | **100** | **102** | **106** | **107** | ---- |
| 4-Terphenyl-d14 | 1718-51-0 | 0.5 | % | **95.0** | **95.6** | **99.8** | **100** | ---- |
| **EP080S: TPH(V)/BTEX Surrogates** | | | | | | | | |
| 1.2-Dichloroethane-D4 | 17060-07-0 | 0.2 | % | **101** | **110** | **123** | **101** | ---- |
| Toluene-D8 | 2037-26-5 | 0.2 | % | **79.1** | **93.8** | **105** | **82.6** | ---- |
| 4-Bromofluorobenzene | 460-00-4 | 0.2 | % | **81.0** | **99.0** | **104** | **86.0** | ---- |

## Surrogate Control Limits

Sub-Matrix: **SOIL**

| Compound | CAS Number | Recovery Limits (%) Low | High |
|---|---|---|---|
| **EP066S: PCB Surrogate** | | | |
| **Decachlorobiphenyl** | 2051-24-3 | 39 | 149 |
| **EP068S: Organochlorine Pesticide Surrogate** | | | |
| **Dibromo-DDE** | 21655-73-2 | 49 | 147 |
| **EP068T: Organophosphorus Pesticide Surrogate** | | | |
| **DEF** | 78-48-8 | 35 | 143 |
| **EP075(SIM)S: Phenolic Compound Surrogates** | | | |
| **Phenol-d6** | 13127-88-3 | 63 | 123 |
| **2-Chlorophenol-D4** | 93951-73-6 | 66 | 122 |
| **2.4.6-Tribromophenol** | 118-79-6 | 40 | 138 |
| **EP075(SIM)T: PAH Surrogates** | | | |
| **2-Fluorobiphenyl** | 321-60-8 | 70 | 122 |
| **Anthracene-d10** | 1719-06-8 | 66 | 128 |
| **4-Terphenyl-d14** | 1718-51-0 | 65 | 129 |
| **EP080S: TPH(V)/BTEX Surrogates** | | | |
| **1.2-Dichloroethane-D4** | 17060-07-0 | 73 | 133 |
| **Toluene-D8** | 2037-26-5 | 74 | 132 |
| **4-Bromofluorobenzene** | 460-00-4 | 72 | 130 |

# QUALITY CONTROL REPORT

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2225933** | Page | : 1 of 9 |
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Contact | : Katie Davis |
| Address | : Level 5, 20 Berry Street, North Sydney, NSW 2060 North Sydney 2060 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Project | : 30013211 Cowra DSI | Date Samples Received | : 22-Jul-2022 |
| Order number | : 30013211 | Date Analysis Commenced | : 25-Jul-2022 |
| C-O-C number | : ---- | Issue Date | : 29-Jul-2022 |
| Sampler | : Pauline Voukidis | | |
| Site | : ---- | | |
| Quote number | : EN/025/21 | | |
| No. of samples received | : 7 | | |
| No. of samples analysed | : 5 | | |

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

## *Signatories*

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Ankit Joshi | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |

## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

## Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| **EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4479714)** | | | | | | | | | |
| ES2225933-001 | QA01A | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | 0.0 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 36 | 30 | 15.7 | 0% - 50% |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 11 | 14 | 18.4 | No Limit |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | <5 | 0.0 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | 13 | 14 | 0.0 | No Limit |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | 29 | 18 | 50.7 | No Limit |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 35 | 32 | 10.3 | No Limit |
| **EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4479148)** | | | | | | | | | |
| ES2225933-001 | QA01A | EA055: Moisture Content | ---- | 0.1 | % | 14.6 | 15.6 | 6.4 | 0% - 50% |
| **EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4479716)** | | | | | | | | | |
| ES2225933-007 | QA08A | EA055: Moisture Content | ---- | 0.1 | % | 8.9 | 9.8 | 10.1 | 0% - 20% |
| **EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4483879)** | | | | | | | | | |
| ES2222774-009 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 12.5 | 11.8 | 6.1 | 0% - 20% |
| ES2226252-013 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 13.6 | 13.5 | 0.8 | 0% - 20% |
| **EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4479715)** | | | | | | | | | |
| ES2225933-001 | QA01A | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | 0.0 | No Limit |
| **EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4480675)** | | | | | | | | | |
| ES2225933-001 | QA01A | EP066: Total Polychlorinated biphenyls | ---- | 0.1 | mg/kg | <0.1 | <0.1 | 0.0 | No Limit |
| **EP068A: Organochlorine Pesticides (OC) (QC Lot: 4480674)** | | | | | | | | | |
| ES2225933-001 | QA01A | EP068: alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Laboratory sample ID* | *Sample ID* | *Method: Compound* | *CAS Number* | *LOR* | *Unit* | *Original Result* | *Duplicate Result* | *RPD (%)* | *Acceptable RPD (%)* |
| **EP068A: Organochlorine Pesticides (OC) (QC Lot: 4480674) - continued** | | | | | | | | | |
| ES2225933-001 | QA01A | EP068: delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP068: Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| **EP068B: Organophosphorus Pesticides (OP) (QC Lot: 4480674)** | | | | | | | | | |
| ES2225933-001 | QA01A | EP068: Dichlorvos | 62-73-7 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Demeton-S-methyl | 919-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Dimethoate | 60-51-5 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Diazinon | 333-41-5 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Chlorpyrifos-methyl | 5598-13-0 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Malathion | 121-75-5 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Fenthion | 55-38-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Chlorpyrifos | 2921-88-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Pirimphos-ethyl | 23505-41-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Chlorfenvinphos | 470-90-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Bromophos-ethyl | 4824-78-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Fenamiphos | 22224-92-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Prothiofos | 34643-46-4 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Ethion | 563-12-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Carbophenothion | 786-19-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Azinphos Methyl | 86-50-0 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Monocrotophos | 6923-22-4 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP068: Parathion-methyl | 298-00-0 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP068: Parathion | 56-38-2 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4480673)** | | | | | | | | | |
| ES2225933-001 | QA01A | EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Laboratory sample ID* | *Sample ID* | *Method: Compound* | *CAS Number* | *LOR* | *Unit* | *Original Result* | *Duplicate Result* | *RPD (%)* | *Acceptable RPD (%)* |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4480673) - continued** | | | | | | | | | |
| ES2225933-001 | QA01A | EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2<br>205-82-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Sum of polycyclic aromatic hydrocarbons | ---- | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene TEQ (zero) | ---- | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| **EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4479248)** | | | | | | | | | |
| ES2222774-007 | Anonymous | EP080: C6 - C9 Fraction | ---- | 10 | mg/kg | <10 | <10 | 0.0 | No Limit |
| ES2225933-002 | QA02A | EP080: C6 - C9 Fraction | ---- | 10 | mg/kg | <10 | <10 | 0.0 | No Limit |
| **EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4480672)** | | | | | | | | | |
| ES2225933-001 | QA01A | EP071: C15 - C28 Fraction | ---- | 100 | mg/kg | <100 | <100 | 0.0 | No Limit |
| | | EP071: C29 - C36 Fraction | ---- | 100 | mg/kg | <100 | <100 | 0.0 | No Limit |
| | | EP071: C10 - C14 Fraction | ---- | 50 | mg/kg | <50 | <50 | 0.0 | No Limit |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4479248)** | | | | | | | | | |
| ES2222774-007 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | 0.0 | No Limit |
| ES2225933-002 | QA02A | EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | 0.0 | No Limit |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4480672)** | | | | | | | | | |
| ES2225933-001 | QA01A | EP071: >C16 - C34 Fraction | ---- | 100 | mg/kg | <100 | <100 | 0.0 | No Limit |
| | | EP071: >C34 - C40 Fraction | ---- | 100 | mg/kg | <100 | <100 | 0.0 | No Limit |
| | | EP071: >C10 - C16 Fraction | ---- | 50 | mg/kg | <50 | <50 | 0.0 | No Limit |
| **EP080: BTEXN (QC Lot: 4479248)** | | | | | | | | | |
| ES2222774-007 | Anonymous | EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Laboratory sample ID* | *Sample ID* | *Method: Compound* | *CAS Number* | *LOR* | *Unit* | *Original Result* | *Duplicate Result* | *RPD (%)* | *Acceptable RPD (%)* |
| **EP080: BTEXN (QC Lot: 4479248) - continued** | | | | | | | | | |
| ES2222774-007 | Anonymous | EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | <1 | 0.0 | No Limit |
| ES2225933-002 | QA02A | EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | <1 | 0.0 | No Limit |

## Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

| | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Spike Recovery (%) | Acceptable Limits (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | Low | High |
| **EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4479714)** | | | | | | | | |
| EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | 121.1 mg/kg | 103 | 88.0 | 113 |
| EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | 0.74 mg/kg | 91.1 | 70.0 | 130 |
| EG005T: Chromium | 7440-47-3 | 2 | mg/kg | <2 | 19.6 mg/kg | 107 | 68.0 | 132 |
| EG005T: Copper | 7440-50-8 | 5 | mg/kg | <5 | 52.9 mg/kg | 104 | 89.0 | 111 |
| EG005T: Lead | 7439-92-1 | 5 | mg/kg | <5 | 60.8 mg/kg | 96.0 | 82.0 | 119 |
| EG005T: Nickel | 7440-02-0 | 2 | mg/kg | <2 | 15.3 mg/kg | 98.3 | 80.0 | 120 |
| EG005T: Zinc | 7440-66-6 | 5 | mg/kg | <5 | 139.3 mg/kg | 90.4 | 66.0 | 133 |
| **EG035T: Total Recoverable Mercury by FIMS (QCLot: 4479715)** | | | | | | | | |
| EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | 0.087 mg/kg | 79.3 | 70.0 | 125 |
| **EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4480675)** | | | | | | | | |
| EP066: Total Polychlorinated biphenyls | ---- | 0.1 | mg/kg | <0.1 | 1 mg/kg | 84.9 | 62.0 | 126 |
| **EP068A: Organochlorine Pesticides (OC) (QCLot: 4480674)** | | | | | | | | |
| EP068: alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 88.0 | 69.0 | 113 |
| EP068: Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 85.7 | 65.0 | 117 |
| EP068: beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 86.3 | 67.0 | 119 |
| EP068: gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 85.2 | 68.0 | 116 |
| EP068: delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 86.6 | 65.0 | 117 |
| EP068: Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 81.5 | 67.0 | 115 |
| EP068: Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 84.4 | 69.0 | 115 |
| EP068: Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 88.2 | 62.0 | 118 |
| EP068: trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 86.6 | 63.0 | 117 |
| EP068: alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 87.0 | 66.0 | 116 |
| EP068: cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 81.7 | 64.0 | 116 |
| EP068: Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 85.6 | 66.0 | 116 |
| EP068: 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 85.8 | 67.0 | 115 |
| EP068: Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 79.9 | 67.0 | 123 |
| EP068: beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 84.8 | 69.0 | 115 |
| EP068: 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 88.6 | 69.0 | 121 |
| EP068: Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 90.5 | 56.0 | 120 |
| EP068: Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 88.3 | 62.0 | 124 |
| EP068: 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 80.9 | 66.0 | 120 |
| EP068: Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 89.8 | 64.0 | 122 |
| EP068: Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 76.8 | 54.0 | 130 |
| **EP068B: Organophosphorus Pesticides (OP) (QCLot: 4480674)** | | | | | | | | |

Sub-Matrix: **SOIL**

| Method: Compound | CAS Number | LOR | Unit | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Spike Recovery (%) | Acceptable Limits (%) | |
| | | | | Result | Concentration | LCS | Low | High |
| **EP068B: Organophosphorus Pesticides (OP) (QCLot: 4480674) - continued** | | | | | | | | |
| EP068: Dichlorvos | 62-73-7 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 76.4 | 59.0 | 119 |
| EP068: Demeton-S-methyl | 919-86-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 78.9 | 62.0 | 128 |
| EP068: Monocrotophos | 6923-22-4 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 77.8 | 54.0 | 126 |
| EP068: Dimethoate | 60-51-5 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 81.0 | 67.0 | 119 |
| EP068: Diazinon | 333-41-5 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 87.6 | 70.0 | 120 |
| EP068: Chlorpyrifos-methyl | 5598-13-0 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 83.0 | 72.0 | 120 |
| EP068: Parathion-methyl | 298-00-0 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 94.3 | 68.0 | 120 |
| EP068: Malathion | 121-75-5 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 74.6 | 68.0 | 122 |
| EP068: Fenthion | 55-38-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 84.9 | 69.0 | 117 |
| EP068: Chlorpyrifos | 2921-88-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 85.6 | 76.0 | 118 |
| EP068: Parathion | 56-38-2 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 83.9 | 64.0 | 122 |
| EP068: Pirimphos-ethyl | 23505-41-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 85.4 | 70.0 | 116 |
| EP068: Chlorfenvinphos | 470-90-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 92.6 | 69.0 | 121 |
| EP068: Bromophos-ethyl | 4824-78-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 86.6 | 66.0 | 118 |
| EP068: Fenamiphos | 22224-92-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 75.4 | 68.0 | 124 |
| EP068: Prothiofos | 34643-46-4 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 77.5 | 62.0 | 112 |
| EP068: Ethion | 563-12-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 82.3 | 68.0 | 120 |
| EP068: Carbophenothion | 786-19-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 84.1 | 65.0 | 127 |
| EP068: Azinphos Methyl | 86-50-0 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 55.7 | 41.0 | 123 |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4480673)** | | | | | | | | |
| EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 110 | 77.0 | 125 |
| EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 118 | 72.0 | 124 |
| EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 104 | 73.0 | 127 |
| EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 114 | 72.0 | 126 |
| EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 108 | 75.0 | 127 |
| EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 100 | 77.0 | 127 |
| EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 119 | 73.0 | 127 |
| EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 114 | 74.0 | 128 |
| EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 108 | 69.0 | 123 |
| EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 109 | 75.0 | 127 |
| EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2<br>205-82-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 107 | 68.0 | 116 |
| EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 110 | 74.0 | 126 |
| EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 97.8 | 70.0 | 126 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 92.8 | 61.0 | 121 |
| EP075(SIM): Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 90.1 | 62.0 | 118 |
| EP075(SIM): Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 90.7 | 63.0 | 121 |
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4479248)** | | | | | | | | |
| EP080: C6 - C9 Fraction | ---- | 10 | mg/kg | <10 | 26 mg/kg | 89.0 | 68.4 | 128 |

Sub-Matrix: **SOIL**

| Method: Compound | CAS Number | LOR | Unit | Method Blank (MB) Report: Result | Laboratory Control Spike (LCS) Report: Spike Concentration | Spike Recovery (%): LCS | Acceptable Limits (%): Low | Acceptable Limits (%): High |
|---|---|---|---|---|---|---|---|---|
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4480672)** | | | | | | | | |
| EP071: C10 - C14 Fraction | ---- | 50 | mg/kg | <50 | 300 mg/kg | 108 | 75.0 | 129 |
| EP071: C15 - C28 Fraction | ---- | 100 | mg/kg | <100 | 450 mg/kg | 112 | 77.0 | 131 |
| EP071: C29 - C36 Fraction | ---- | 100 | mg/kg | <100 | 300 mg/kg | 112 | 71.0 | 129 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4479248)** | | | | | | | | |
| EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | 31 mg/kg | 91.5 | 68.4 | 128 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4480672)** | | | | | | | | |
| EP071: >C10 - C16 Fraction | ---- | 50 | mg/kg | <50 | 375 mg/kg | 108 | 77.0 | 125 |
| EP071: >C16 - C34 Fraction | ---- | 100 | mg/kg | <100 | 525 mg/kg | 112 | 74.0 | 138 |
| EP071: >C34 - C40 Fraction | ---- | 100 | mg/kg | <100 | 225 mg/kg | 120 | 63.0 | 131 |
| **EP080: BTEXN (QCLot: 4479248)** | | | | | | | | |
| EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | 1 mg/kg | 108 | 62.0 | 116 |
| EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | 1 mg/kg | 93.0 | 67.0 | 121 |
| EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | 1 mg/kg | 93.3 | 65.0 | 117 |
| EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 0.5 | mg/kg | <0.5 | 2 mg/kg | 93.4 | 66.0 | 118 |
| EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | 1 mg/kg | 96.0 | 68.0 | 120 |
| EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | 1 mg/kg | 91.6 | 63.0 | 119 |

## Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Matrix Spike (MS) Report: Spike Concentration | SpikeRecovery(%): MS | Acceptable Limits (%): Low | Acceptable Limits (%): High |
|---|---|---|---|---|---|---|---|
| **EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4479714)** | | | | | | | |
| ES2225933-001 | QA01A | EG005T: Arsenic | 7440-38-2 | 50 mg/kg | 92.0 | 70.0 | 130 |
| | | EG005T: Cadmium | 7440-43-9 | 50 mg/kg | 98.7 | 70.0 | 130 |
| | | EG005T: Chromium | 7440-47-3 | 50 mg/kg | 90.6 | 68.0 | 132 |
| | | EG005T: Copper | 7440-50-8 | 250 mg/kg | 99.1 | 70.0 | 130 |
| | | EG005T: Lead | 7439-92-1 | 250 mg/kg | 94.8 | 70.0 | 130 |
| | | EG005T: Nickel | 7440-02-0 | 50 mg/kg | 99.5 | 70.0 | 130 |
| | | EG005T: Zinc | 7440-66-6 | 250 mg/kg | 96.2 | 66.0 | 133 |
| **EG035T: Total Recoverable Mercury by FIMS (QCLot: 4479715)** | | | | | | | |
| ES2225933-001 | QA01A | EG035T: Mercury | 7439-97-6 | 5 mg/kg | 91.9 | 70.0 | 130 |
| **EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4480675)** | | | | | | | |
| ES2225933-001 | QA01A | EP066: Total Polychlorinated biphenyls | ---- | 1 mg/kg | 94.2 | 70.0 | 130 |

Sub-Matrix: **SOIL**

| | | | | Matrix Spike (MS) Report | | | |
|---|---|---|---|---|---|---|---|
| | | | | Spike | SpikeRecovery(%) | Acceptable Limits (%) | |
| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Concentration | MS | Low | High |
| **EP068A: Organochlorine Pesticides (OC) (QCLot: 4480674)** | | | | | | | |
| ES2225933-001 | QA01A | EP068: gamma-BHC | 58-89-9 | 0.5 mg/kg | 89.6 | 70.0 | 130 |
| | | EP068: Heptachlor | 76-44-8 | 0.5 mg/kg | 81.3 | 70.0 | 130 |
| | | EP068: Aldrin | 309-00-2 | 0.5 mg/kg | 89.3 | 70.0 | 130 |
| | | EP068: Dieldrin | 60-57-1 | 0.5 mg/kg | 94.8 | 70.0 | 130 |
| | | EP068: Endrin | 72-20-8 | 2 mg/kg | 72.1 | 70.0 | 130 |
| | | EP068: 4.4`-DDT | 50-29-3 | 2 mg/kg | 76.0 | 70.0 | 130 |
| **EP068B: Organophosphorus Pesticides (OP) (QCLot: 4480674)** | | | | | | | |
| ES2225933-001 | QA01A | EP068: Diazinon | 333-41-5 | 0.5 mg/kg | 95.7 | 70.0 | 130 |
| | | EP068: Chlorpyrifos-methyl | 5598-13-0 | 0.5 mg/kg | 86.7 | 70.0 | 130 |
| | | EP068: Pirimphos-ethyl | 23505-41-1 | 0.5 mg/kg | 88.4 | 70.0 | 130 |
| | | EP068: Bromophos-ethyl | 4824-78-6 | 0.5 mg/kg | 92.0 | 70.0 | 130 |
| | | EP068: Prothiofos | 34643-46-4 | 0.5 mg/kg | 91.8 | 70.0 | 130 |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4480673)** | | | | | | | |
| ES2225933-001 | QA01A | EP075(SIM): Acenaphthene | 83-32-9 | 10 mg/kg | 100 | 70.0 | 130 |
| | | EP075(SIM): Pyrene | 129-00-0 | 10 mg/kg | 116 | 70.0 | 130 |
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4479248)** | | | | | | | |
| ES2222774-007 | Anonymous | EP080: C6 - C9 Fraction | ---- | 32.5 mg/kg | 87.7 | 70.0 | 130 |
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4480672)** | | | | | | | |
| ES2225933-001 | QA01A | EP071: C10 - C14 Fraction | ---- | 480 mg/kg | 92.7 | 73.0 | 137 |
| | | EP071: C15 - C28 Fraction | ---- | 3100 mg/kg | 92.4 | 53.0 | 131 |
| | | EP071: C29 - C36 Fraction | ---- | 2060 mg/kg | 96.9 | 52.0 | 132 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4479248)** | | | | | | | |
| ES2222774-007 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 37.5 mg/kg | 94.6 | 70.0 | 130 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4480672)** | | | | | | | |
| ES2225933-001 | QA01A | EP071: >C10 - C16 Fraction | ---- | 860 mg/kg | 82.3 | 73.0 | 137 |
| | | EP071: >C16 - C34 Fraction | ---- | 4320 mg/kg | 94.5 | 53.0 | 131 |
| | | EP071: >C34 - C40 Fraction | ---- | 890 mg/kg | 101 | 52.0 | 132 |
| **EP080: BTEXN (QCLot: 4479248)** | | | | | | | |
| ES2222774-007 | Anonymous | EP080: Benzene | 71-43-2 | 2.5 mg/kg | 86.3 | 70.0 | 130 |
| | | EP080: Toluene | 108-88-3 | 2.5 mg/kg | 79.6 | 70.0 | 130 |
| | | EP080: Ethylbenzene | 100-41-4 | 2.5 mg/kg | 83.2 | 70.0 | 130 |
| | | EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 2.5 mg/kg | 83.0 | 70.0 | 130 |
| | | EP080: ortho-Xylene | 95-47-6 | 2.5 mg/kg | 79.6 | 70.0 | 130 |
| | | EP080: Naphthalene | 91-20-3 | 2.5 mg/kg | 83.9 | 70.0 | 130 |

# QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2225933** | Page | : 1 of 6 |
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Telephone | : +61-2-8784 8555 |
| Project | : 30013211 Cowra DSI | Date Samples Received | : 22-Jul-2022 |
| Site | : ---- | Issue Date | : 29-Jul-2022 |
| Sampler | : Pauline Voukidis | No. of samples received | : 7 |
| Order number | : 30013211 | No. of samples analysed | : 5 |

**This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.**

Brief method summaries and references are also provided to assist in traceability.

## Summary of Outliers

### Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

### Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

### Outliers : Frequency of Quality Control Samples

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

## Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

| Method / Container / Client Sample ID(s) | Extraction / Preparation | | | Analysis | | |
|---|---|---|---|---|---|---|
| | Date extracted | Due for extraction | Days overdue | Date analysed | Due for analysis | Days overdue |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA03A | ---- | ---- | ---- | 27-Jul-2022 | 26-Jul-2022 | **1** |
| **EP066: Polychlorinated Biphenyls (PCB)** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA01A | 26-Jul-2022 | 25-Jul-2022 | **1** | ---- | ---- | ---- |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA01A | 26-Jul-2022 | 25-Jul-2022 | **1** | ---- | ---- | ---- |
| **EP068B: Organophosphorus Pesticides (OP)** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA01A | 26-Jul-2022 | 25-Jul-2022 | **1** | ---- | ---- | ---- |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA01A | 26-Jul-2022 | 25-Jul-2022 | **1** | ---- | ---- | ---- |
| **EP080/071: Total Petroleum Hydrocarbons** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA01A | 26-Jul-2022 | 25-Jul-2022 | **1** | ---- | ---- | ---- |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions** | | | | | | |
| **Soil Glass Jar - Unpreserved** | | | | | | |
| QA01A | 26-Jul-2022 | 25-Jul-2022 | **1** | ---- | ---- | ---- |

## Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| Method / Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| Method / Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EA055)** QA01A | **11-Jul-2022** | **----** | ---- | ---- | **25-Jul-2022** | 25-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EA055)** QA02A | **12-Jul-2022** | **----** | ---- | ---- | **25-Jul-2022** | 26-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EA055)** QA03A | **12-Jul-2022** | **----** | ---- | ---- | **27-Jul-2022** | 26-Jul-2022 | × |
| **Soil Glass Jar - Unpreserved (EA055)** QA04A | **13-Jul-2022** | **----** | ---- | ---- | **25-Jul-2022** | 27-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EA055)** QA08A | **14-Jul-2022** | **----** | ---- | ---- | **25-Jul-2022** | 28-Jul-2022 | ✓ |
| **EG005(ED093)T: Total Metals by ICP-AES** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EG005T)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 07-Jan-2023 | ✓ | **26-Jul-2022** | 07-Jan-2023 | ✓ |
| **Soil Glass Jar - Unpreserved (EG005T)** QA02A | **12-Jul-2022** | **26-Jul-2022** | 08-Jan-2023 | ✓ | **26-Jul-2022** | 08-Jan-2023 | ✓ |
| **Soil Glass Jar - Unpreserved (EG005T)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 09-Jan-2023 | ✓ | **26-Jul-2022** | 09-Jan-2023 | ✓ |
| **Soil Glass Jar - Unpreserved (EG005T)** QA08A | **14-Jul-2022** | **26-Jul-2022** | 10-Jan-2023 | ✓ | **26-Jul-2022** | 10-Jan-2023 | ✓ |
| **EG035T: Total Recoverable Mercury by FIMS** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EG035T)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 08-Aug-2022 | ✓ | **26-Jul-2022** | 08-Aug-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EG035T)** QA02A | **12-Jul-2022** | **26-Jul-2022** | 09-Aug-2022 | ✓ | **26-Jul-2022** | 09-Aug-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EG035T)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 10-Aug-2022 | ✓ | **26-Jul-2022** | 10-Aug-2022 | ✓ |
| **EP066: Polychlorinated Biphenyls (PCB)** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP066)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 25-Jul-2022 | × | **27-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP066)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 27-Jul-2022 | ✓ | **27-Jul-2022** | 04-Sep-2022 | ✓ |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP068)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 25-Jul-2022 | × | **27-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP068)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 27-Jul-2022 | ✓ | **27-Jul-2022** | 04-Sep-2022 | ✓ |
| **EP068B: Organophosphorus Pesticides (OP)** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP068)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 25-Jul-2022 | × | **27-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP068)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 27-Jul-2022 | ✓ | **27-Jul-2022** | 04-Sep-2022 | ✓ |

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| Method / Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP075(SIM))** QA01A | **11-Jul-2022** | **26-Jul-2022** | 25-Jul-2022 | × | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP075(SIM))** QA02A, QA03A | **12-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP075(SIM))** QA04A | **13-Jul-2022** | **26-Jul-2022** | 27-Jul-2022 | ✓ | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **EP080/071: Total Petroleum Hydrocarbons** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP080)** QA01A | **11-Jul-2022** | **25-Jul-2022** | 25-Jul-2022 | ✓ | **25-Jul-2022** | 25-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP071)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 25-Jul-2022 | × | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP080)** QA02A, QA03A | **12-Jul-2022** | **25-Jul-2022** | 26-Jul-2022 | ✓ | **25-Jul-2022** | 26-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP071)** QA02A, QA03A | **12-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP080)** QA04A | **13-Jul-2022** | **25-Jul-2022** | 27-Jul-2022 | ✓ | **25-Jul-2022** | 27-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP071)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 27-Jul-2022 | ✓ | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP080)** QA01A | **11-Jul-2022** | **25-Jul-2022** | 25-Jul-2022 | ✓ | **25-Jul-2022** | 25-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP071)** QA01A | **11-Jul-2022** | **26-Jul-2022** | 25-Jul-2022 | × | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP080)** QA02A, QA03A | **12-Jul-2022** | **25-Jul-2022** | 26-Jul-2022 | ✓ | **25-Jul-2022** | 26-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP071)** QA02A, QA03A | **12-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP080)** QA04A | **13-Jul-2022** | **25-Jul-2022** | 27-Jul-2022 | ✓ | **25-Jul-2022** | 27-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP071)** QA04A | **13-Jul-2022** | **26-Jul-2022** | 27-Jul-2022 | ✓ | **26-Jul-2022** | 04-Sep-2022 | ✓ |
| **EP080: BTEXN** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP080)** QA01A | **11-Jul-2022** | **25-Jul-2022** | 25-Jul-2022 | ✓ | **25-Jul-2022** | 25-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP080)** QA02A, QA03A | **12-Jul-2022** | **25-Jul-2022** | 26-Jul-2022 | ✓ | **25-Jul-2022** | 26-Jul-2022 | ✓ |
| **Soil Glass Jar - Unpreserved (EP080)** QA04A | **13-Jul-2022** | **25-Jul-2022** | 27-Jul-2022 | ✓ | **25-Jul-2022** | 27-Jul-2022 | ✓ |

# Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

| Quality Control Sample Type | | Count | | Rate (%) | | | Quality Control Specification |
|---|---|---|---|---|---|---|---|
| *Analytical Methods* | *Method* | *QC* | *Regular* | ***Actual*** | ***Expected*** | *Evaluation* | |
| **Laboratory Duplicates (DUP)** | | | | | | | |
| Moisture Content | EA055 | 4 | 16 | **25.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 7 | **14.29** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 3 | **33.33** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB) | EP066 | 1 | 3 | **33.33** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 3 | **33.33** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 4 | **25.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 10 | **10.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 2 | 16 | **12.50** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| **Laboratory Control Samples (LCS)** | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 7 | **14.29** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB) | EP066 | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 4 | **25.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 10 | **10.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 16 | **6.25** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| **Method Blanks (MB)** | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 7 | **14.29** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB) | EP066 | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 4 | **25.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 10 | **10.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 16 | **6.25** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| **Matrix Spikes (MS)** | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 7 | **14.29** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB) | EP066 | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 3 | **33.33** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 4 | **25.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 10 | **10.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 16 | **6.25** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |

## Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods | Method | Matrix | Method Descriptions |
|---|---|---|---|
| Moisture Content | EA055 | SOIL | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3). |
| Total Metals by ICP-AES | EG005T | SOIL | In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3) |
| Total Mercury by FIMS | EG035T | SOIL | In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3) |
| Polychlorinated Biphenyls (PCB) | EP066 | SOIL | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3). |
| Pesticides by GCMS | EP068 | SOIL | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3). |
| TRH - Semivolatile Fraction | EP071 | SOIL | In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3). |
| PAH/Phenols (SIM) | EP075(SIM) | SOIL | In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3) |
| TRH Volatiles/BTEX | EP080 | SOIL | In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended. |

| Preparation Methods | Method | Matrix | Method Descriptions |
|---|---|---|---|
| Hot Block Digest for metals in soils sediments and sludges | EN69 | SOIL | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3). |
| Methanolic Extraction of Soils for Purge and Trap | ORG16 | SOIL | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS. |
| Tumbler Extraction of Solids | ORG17 | SOIL | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis. |

# SAMPLE RECEIPT NOTIFICATION (SRN)

**Work Order** : **ES2225933**

| | | | |
|---|---|---|---|
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Contact | : Katie Davis |
| Address | : Level 5, 20 Berry Street, North Sydney, NSW 2060<br>North Sydney 2060 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| E-mail | : steven.drysdale@smec.com | E-mail | : katie.davis@alsglobal.com |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Facsimile | : ---- | Facsimile | : +61-2-8784 8500 |
| Project | : 30013211 Cowra DSI | Page | : 1 of 2 |
| Order number | : ---- | Quote number | : ES2021SMEAUS0010 (EN/025/21) |
| C-O-C number | : ---- | QC Level | : NEPM 2013 B3 & ALS QC Standard |
| Site | : ---- | | |
| Sampler | : Pauline Voukidis | | |

## Dates

| | | | |
|---|---|---|---|
| Date Samples Received | : 22-Jul-2022 14:30 | Issue Date | : 25-Jul-2022 |
| Client Requested Due Date | : 29-Jul-2022 | Scheduled Reporting Date | : **29-Jul-2022** |

## Delivery Details

| | | | |
|---|---|---|---|
| Mode of Delivery | : Carrier | Security Seal | : Not Available |
| No. of coolers/boxes | : 1 | Temperature | : 14.8' C - Ice Bricks present |
| Receipt Detail | : | No. of samples received / analysed | : 7 / 5 |

## General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

## Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

## Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

| Laboratory sample ID | Sampling date / time | Sample ID | (On Hold) SOIL No analysis requested | SOIL - EA055-103 Moisture Content | SOIL - EG005T (solids) Total Metals by ICP-AES | SOIL - S-07 TRH/BTEXN/PAH (SIM) | SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals | SOIL - S-26 8 metals/TRH/BTEXN/PAH |
|---|---|---|---|---|---|---|---|---|
| ES2225933-001 | 11-Jul-2022 00:00 | QA01A | | ✓ | | | ✓ | |
| ES2225933-002 | 12-Jul-2022 00:00 | QA02A | | ✓ | | | | ✓ |
| ES2225933-003 | 12-Jul-2022 00:00 | QA03A | | ✓ | | ✓ | | |
| ES2225933-004 | 13-Jul-2022 00:00 | QA04A | | ✓ | | | ✓ | |
| ES2225933-005 | 13-Jul-2022 00:00 | QA05A | ✓ | | | | | |
| ES2225933-006 | 14-Jul-2022 00:00 | QA07A | ✓ | | | | | |
| ES2225933-007 | 14-Jul-2022 00:00 | QA08A | | ✓ | ✓ | | | |

## Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

## Requested Deliverables

**ACCOUNTS INVOICES**

| | | |
|---|---|---|
| - A4 - AU Tax Invoice (INV) | Email | accounts.payable@smec.com |

**Pauline Voukidis**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | pauline.voukidis@smec.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | pauline.voukidis@smec.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | pauline.voukidis@smec.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | pauline.voukidis@smec.com |
| - Chain of Custody (CoC) (COC) | Email | pauline.voukidis@smec.com |
| - EDI Format - ENMRG (ENMRG) | Email | pauline.voukidis@smec.com |
| - EDI Format - ESDAT (ESDAT) | Email | pauline.voukidis@smec.com |

**Steven Drysdale**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | steven.drysdale@smec.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | steven.drysdale@smec.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | steven.drysdale@smec.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | steven.drysdale@smec.com |
| - A4 - AU Tax Invoice (INV) | Email | steven.drysdale@smec.com |
| - Chain of Custody (CoC) (COC) | Email | steven.drysdale@smec.com |
| - EDI Format - ENMRG (ENMRG) | Email | steven.drysdale@smec.com |
| - EDI Format - ESDAT (ESDAT) | Email | steven.drysdale@smec.com |

SMEC

# CHAIN OF CUSTODY FORM

| | | |
|---|---|---|
| SMEC OFFICE: SMEC North Sydney<br>PROJECT: Cowra DSI | TURNAROUND REQUIREMENTS : ○ Standard - 5 day TAT | LAB: ALS<br>ATTENTION:<br>Sample Receipt (Jason Dighton)<br>DISPATCH TO (ADDRESS & PHONE NO.):<br>277-289 Woodpark Rd, Smithfield NSW 2164<br>PH: 8784 8555 |
| PROJECT NUMBER: 30013211 | LAB QUOTE NO.: | |
| PROJECT MANAGER: Steven Drysdale | CONTACT PH: 0422 156 256 | |
| SAMPLED BY: Pauline Voukidis | | |

| | | | |
|---|---|---|---|
| DATE SAMPLED: 11/07/2022 - 14/07/2022 | RELINQUISHED BY: DATE/TIME: | RECEIVED BY: DATE/TIME: | RELINQUISHED BY: DATE/TIME: | RECEIVED BY: DATE/TIME: |
| Email Reports to (will default to PM if blank): STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM<br>Email Invoice to (will default to PM if blank): STEVEN.DRYSDALE@SMEC.COM | PV 15/07/2022 | 22/07/22 1430 | | |

Special Laboratory Instructions:
ESDAT FORMAT RESULTS PLEASE
*Suite S16 = TRH, BTEX, PAH, OCP, OPP, PCB, metals (8)

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite S16* | PCB | Lead + Zinc | Suite S7 (TRH, BTEX, PAH) | Suite S26 (TRH, BTEX, PAH, metals) | Asbestos ID | Asbestos NEPMWA | VHC, VOC | Polychlorinated Dioxins and Furans (PCDD/F) | pH, EC | Foreign Materials | PAH | Moisture content | Suite M8 (8 metals) | BTEX | BTEX and TRH C6-C9 | Coal Tar presence/absence | |
| 1 | QA01A | 7/11/2022 | S | 1 JAR | 1 | | X | | | | | | | | | | | | | | | | | |
| 2 | QA02A | 7/12/2022 | S | 1 JAR | 1 | | | | | | X | | | | | | | | | | | | | |
| 3 | QA03A | 7/12/2022 | S | 1 JAR | 1 | | | | | X | | | | | | | | | | | | | | |
| 4 | QA04A | 7/13/2022 | S | 1 JAR | 1 | | X | | | | | | | | | | | | | | | | | |
| 5 | QA05A | 7/13/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| 6 | QA07A | 7/14/2022 | S | 1 JAR | 1 | X | | | | | | | | | | | | | | | | | | |
| 7 | QA08A | 7/14/2022 | S | 1 JAR | 1 | | | | X | | | | | | | | | | | | | | | |
| | | | | TOTAL | 7 | | | | | | | | | | | | | | | | | | | |

Notes:

Environmental Division
Sydney
Work Order Reference
ES2225933

Telephone : +61-2-8784 8555



Eurofins #907569

# CHAIN OF CUSTODY FORM

SMEC

| | | | |
|---|---|---|---|
| **SMEC OFFICE:** SMEC North Sydney<br><br>**PROJECT:** Cowra DSI | **TURNAROUND REQUIREMENTS :** □ Standard - 5 day TAT | | **LAB:** Eurofins<br>**ATTENTION:**<br>Emma Beasley<br>**DISPATCH TO (ADDRESS & PHONE NO.):**<br>Euorfins Campus<br>179 Magowar Road<br>Girraween NSW 2145 |
| **PROJECT NUMBER:** 30013211 | **LAB QUOTE NO.:** 220701SMEN | | |
| **PROJECT MANAGER:** Steven Drysdale | **CONTACT PH:** 0422 156 256 | | |
| **SAMPLED BY:** PV | | | |
| **DATE SAMPLED:** 19/07/2022 | **RELINQUISHED BY:** DATE/TIME: PV 20/07/2022 1230 | **RECEIVED BY:** DATE/TIME: 20/7/22 12:41 PM | **RECEIVED BY:** DATE/TIME: |
| **Email Reports to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM, PAULINE.VOUKIDIS@SMEC.COM | | | |
| **Email Invoice to (will default to PM if blank):** STEVEN.DRYSDALE@SMEC.COM | | | |

**Special Laboratory Instructions:**
ESDAT FORMAT RESULTS PLEASE

NOTES:

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite B5 (TRH, BTEX, metals) | PAH trace analysis | BTEX | TRH(C6-C9), BTEX | | | | |
| | BH32 | 19/07/2022 | W | 8 Bottles[A] | 8 | | X | X | | | | | | |
| | BH29 | 19/07/2022 | W | 8 Bottles[A] | 8 | | X | X | | | | | | |
| | BH08 | 19/07/2022 | W | 8 Bottles[A] | 8 | | X | X | | | | | | |
| | QA09 | 19/07/2022 | W | 4 Bottles[B] | 4 | | X | X | | | | | | |
| | QA09A | 19/07/2022 | W | 4 Bottles[B] | 4 | | X | X | | | | | | PLEASE SEND TO ALS FOR ANALYSIS WITH ATTACHED CoC |
| | TRIP SPIKE | 15/07/2022 | W | 2 Vials | 2 | | | | X | | | | | |
| | TRIP BLANK | 15/07/2022 | W | 2 Vials | 2 | | | | | X | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | TOTAL | 36 | | | | | | | | | |

Notes:

A. Sharma 20/07/22 12:41 PM Temp: 3.2°C

# 907760

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**

ABN: 50 005 085 521

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**Geelong**
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NATA# 1261 Site# 18217

**Canberra**
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**Eurofins Environment Testing NZ Ltd**

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Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | SMEC Australia Pty Ltd (SYD) |
| **Contact name:** | STEVEN DRYSDALE |
| **Project name:** | COWRA DSI |
| **Project ID:** | 30013211 |
| **Turnaround time:** | 5 Day |
| **Date/Time received** | Jul 20, 2022 12:41 PM |
| **Eurofins reference** | 907760 |

## Sample Information

| | |
|---|---|
| ✓ | A detailed list of analytes logged into our LIMS, is included in the attached summary table. |
| ✓ | Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 3.2 degrees Celsius. |
| ✓ | All samples have been received as described on the above COC. |
| ✓ | COC has been completed correctly. |
| ✓ | Attempt to chill was evident. |
| ✓ | Appropriately preserved sample containers have been used. |
| ✓ | All samples were received in good condition. |
| ✓ | Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times. |
| ✓ | Appropriate sample containers have been used. |
| ✓ | Sample containers for volatile analysis received with zero headspace. |
| ✓ | Split sample sent to requested external lab. |
| ✗ | Some samples have been subcontracted. |
| N/A | Custody Seals intact (if used). |

## Notes

QC09A forwarded to ALS. |

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Emma Beesley on phone : or by email: EmmaBeesley@eurofins.com**

Results will be delivered electronically via email to STEVEN DRYSDALE - STEVEN.DRYSDALE@SMEC.COM.

*Note: A copy of these results will also be delivered to the general SMEC Australia Pty Ltd (SYD) email address.*

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

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**Sydney**
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NATA# 1261 Site# 18217

**Canberra**
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NATA# 1261 Site# 25079

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IANZ# 1327

**Christchurch**
43 Detroit Drive
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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907760
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 20, 2022 12:41 PM
**Due:** Jul 27, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | BTEXN and Volatile TRH | BTEX | Eurofins Suite B7 (filtered metals/PAH trace level) |
|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X |
| **External Laboratory** | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | |
| 1 | BH32 | Jul 19, 2022 | | Water | S22-Jl0044015 | | | X |
| 2 | BH29 | Jul 19, 2022 | | Water | S22-Jl0044016 | | | X |
| 3 | BH08 | Jul 19, 2022 | | Water | S22-Jl0044017 | | | X |
| 4 | QA09 | Jul 19, 2022 | | Water | S22-Jl0044018 | | | X |
| 5 | TRIP SPIKE | Jul 19, 2022 | | Water | S22-Jl0044019 | | X | |
| 6 | TRIP BLANK | Jul 19, 2022 | | Water | S22-Jl0044020 | X | | |
| **Test Counts** | | | | | | 1 | 1 | 4 |

**SMEC Australia Pty Ltd**
**Level 6, 76 Berry Street**
**North Sydney**
**NSW 2060**

**Attention:** **STEVEN DRYSDALE**

**Report** **907760-W**
Project name COWRA DSI
Project ID 30013211
Received Date Jul 20, 2022

| Client Sample ID | | | BH32 | BH29 | BH08 | QA09 |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Water** | **Water** | **Water** | **Water** |
| **Eurofins Sample No.** | | | **S22-JI0044015** | **S22-JI0044016** | **S22-JI0044017** | **S22-JI0044018** |
| **Date Sampled** | | | **Jul 19, 2022** | **Jul 19, 2022** | **Jul 19, 2022** | **Jul 19, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C9 | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| TRH C10-C14 | 0.05 | mg/L | < 0.05 | < 0.05 | < 0.05 | |
| TRH C15-C28 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 | |
| TRH C29-C36 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 | |
| TRH C10-C36 (Total) | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 | < 0 |
| Naphthalene[N02] | 0.01 | mg/L | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| TRH C6-C10 | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| TRH C6-C10 less BTEX (F1)[N04] | 0.02 | mg/L | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| TRH >C10-C16 | 0.05 | mg/L | < 0.05 | < 0.05 | < 0.05 | |
| TRH >C10-C16 less Naphthalene (F2)[N01] | 0.05 | mg/L | < 0.05 | < 0.05 | < 0.05 | - |
| TRH >C16-C34 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 | |
| TRH >C34-C40 | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 | |
| TRH >C10-C40 (total)* | 0.1 | mg/L | < 0.1 | < 0.1 | < 0.1 | - |
| **BTEX** | | | | | | |
| Benzene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Toluene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Ethylbenzene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| m&p-Xylenes | 0.002 | mg/L | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| o-Xylene | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Xylenes - Total* | 0.003 | mg/L | < 0.003 | < 0.003 | < 0.003 | < 0.003 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 92 | 102 | 96 | 93 |
| **Polycyclic Aromatic Hydrocarbons (Trace level)** | | | | | | |
| Acenaphthene | 0.00001 | mg/L | | | | |
| Acenaphthylene | 0.00001 | mg/L | | | | |
| Anthracene | 0.00001 | mg/L | | | | |
| Benz(a)anthracene | 0.00001 | mg/L | | | | |
| Benzo(a)pyrene | 0.00001 | mg/L | | | | |
| Benzo(b&j)fluoranthene | 0.00001 | mg/L | | | | |
| Benzo(g.h.i)perylene | 0.00001 | mg/L | | | | |
| Benzo(k)fluoranthene | 0.00001 | mg/L | | | | |
| Chrysene | 0.00001 | mg/L | | | | |
| Dibenz(a.h)anthracene | 0.00001 | mg/L | | | | |
| Fluoranthene | 0.00001 | mg/L | | | | |
| Fluorene | 0.00001 | mg/L | | | | |
| Indeno(1.2.3-cd)pyrene | 0.00001 | mg/L | | | | |

DRAFT

| Client Sample ID | | | BH32 | BH29 | BH08 | QA09 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Water | Water | Water | Water |
| Eurofins Sample No. | | | S22-JI0044015 | S22-JI0044016 | S22-JI0044017 | S22-JI0044018 |
| Date Sampled | | | Jul 19, 2022 | Jul 19, 2022 | Jul 19, 2022 | Jul 19, 2022 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons (Trace level)** | | | | | | |
| Naphthalene | 0.00001 | mg/L | | | | |
| Phenanthrene | 0.00001 | mg/L | | | | |
| Pyrene | 0.00001 | mg/L | | | | |
| Total PAH* | 0.00001 | mg/L | - | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | | | | |
| p-Terphenyl-d14 (surr.) | 1 | % | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic (filtered) | 0.001 | mg/L | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| Cadmium (filtered) | 0.0002 | mg/L | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 |
| Chromium (filtered) | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | 0.001 |
| Copper (filtered) | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Lead (filtered) | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Mercury (filtered) | 0.0001 | mg/L | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Nickel (filtered) | 0.001 | mg/L | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Zinc (filtered) | 0.005 | mg/L | < 0.005 | < 0.005 | < 0.005 | < 0.005 |

| Client Sample ID | | | TRIP SPIKE | TRIP BLANK |
|---|---|---|---|---|
| Sample Matrix | | | Water | Water |
| Eurofins Sample No. | | | S22-JI0044019 | S22-JI0044020 |
| Date Sampled | | | Jul 19, 2022 | Jul 19, 2022 |
| Test/Reference | LOR | Unit | | |
| **Total Recoverable Hydrocarbons** | | | | |
| TRH C6-C9 | 0.02 | mg/L | - | < 0.02 |
| Naphthalene[N02] | 0.01 | mg/L | - | < 0.01 |
| TRH C6-C10 | 0.02 | mg/L | - | < 0.02 |
| TRH C6-C10 less BTEX (F1)[N04] | 0.02 | mg/L | - | < 0.02 |
| **BTEX** | | | | |
| Benzene | 0.001 | mg/L | - | < 0.001 |
| Toluene | 0.001 | mg/L | - | < 0.001 |
| Ethylbenzene | 0.001 | mg/L | - | < 0.001 |
| m&p-Xylenes | 0.002 | mg/L | - | < 0.002 |
| o-Xylene | 0.001 | mg/L | - | < 0.001 |
| Xylenes - Total* | 0.003 | mg/L | - | < 0.003 |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 92 |
| **BTEX** | | | | |
| Benzene | 1 | % | 120 | - |
| Ethylbenzene | 1 | % | 120 | - |
| m&p-Xylenes | 1 | % | 120 | - |
| o-Xylene | 1 | % | 110 | - |
| Toluene | 1 | % | 120 | - |
| Xylenes - Total | 1 | % | 120 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | 92 | - |

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## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Melbourne | Jul 25, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Melbourne | Jul 25, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Sydney | Jul 22, 2022 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Polycyclic Aromatic Hydrocarbons (Trace level) | Melbourne | Jul 25, 2022 | 7 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace) | | | |
| Metals M8 filtered | Sydney | Jul 22, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Total Recoverable Hydrocarbons | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |

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IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 907760
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Jul 20, 2022 12:41 PM
**Due:** Jul 27, 2022
**Priority:** 5 Day
**Contact Name:** STEVEN DRYSDALE

**Eurofins Analytical Services Manager : Emma Beesley**

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| Sample Detail | | | | | | BTEXN and Volatile TRH | BTEX | Eurofins Suite B7 (filtered metals/PAH trace level) |
|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X |
| **External Laboratory** | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | |
| 1 | BH32 | Jul 19, 2022 | | Water | S22-Jl0044015 | | | X |
| 2 | BH29 | Jul 19, 2022 | | Water | S22-Jl0044016 | | | X |
| 3 | BH08 | Jul 19, 2022 | | Water | S22-Jl0044017 | | | X |
| 4 | QA09 | Jul 19, 2022 | | Water | S22-Jl0044018 | | | X |
| 5 | TRIP SPIKE | Jul 19, 2022 | | Water | S22-Jl0044019 | | X | |
| 6 | TRIP BLANK | Jul 19, 2022 | | Water | S22-Jl0044020 | X | | |
| **Test Counts** | | | | | | 1 | 1 | 4 |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

**mg/kg:** milligrams per kilogram
**mg/L:** milligrams per litre
**µg/L:** micrograms per litre
**ppm:** parts per million
**ppb:** parts per billion
**%:** Percentage
**org/100 mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **COC** | Chain of Custody |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **CRM** | Certified Reference Material (ISO17034) - reported as percent recovery. |
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **LOR** | Limit of Reporting. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **Method Blank** | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| **NCP** | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **SRA** | Sample Receipt Advice |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **TBTO** | Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **TEQ** | Toxic Equivalency Quotient or Total Equivalence |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **US EPA** | United States Environmental Protection Agency |
| **WA DWER** | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | mg/L | < 0.02 | | | 0.02 | Pass | |
| TRH C10-C14 | mg/L | < 0.05 | | | 0.05 | Pass | |
| TRH C15-C28 | mg/L | < 0.1 | | | 0.1 | Pass | |
| TRH C29-C36 | mg/L | < 0.1 | | | 0.1 | Pass | |
| Naphthalene | mg/L | < 0.01 | | | 0.01 | Pass | |
| TRH C6-C10 | mg/L | < 0.02 | | | 0.02 | Pass | |
| TRH >C10-C16 | mg/L | < 0.05 | | | 0.05 | Pass | |
| TRH >C16-C34 | mg/L | < 0.1 | | | 0.1 | Pass | |
| TRH >C34-C40 | mg/L | < 0.1 | | | 0.1 | Pass | |
| **Method Blank** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Toluene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Ethylbenzene | mg/L | < 0.001 | | | 0.001 | Pass | |
| m&p-Xylenes | mg/L | < 0.002 | | | 0.002 | Pass | |
| o-Xylene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Xylenes - Total* | mg/L | < 0.003 | | | 0.003 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons (Trace level)** | | | | | | | |
| Total PAH* | mg/L | - | | | 0.00001 | N/A | |
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic (filtered) | mg/L | < 0.001 | | | 0.001 | Pass | |
| Cadmium (filtered) | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Chromium (filtered) | mg/L | < 0.001 | | | 0.001 | Pass | |
| Copper (filtered) | mg/L | < 0.001 | | | 0.001 | Pass | |
| Lead (filtered) | mg/L | < 0.001 | | | 0.001 | Pass | |
| Mercury (filtered) | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Nickel (filtered) | mg/L | < 0.001 | | | 0.001 | Pass | |
| Zinc (filtered) | mg/L | < 0.005 | | | 0.005 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | % | 83 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 82 | | | 70-130 | Pass | |
| Naphthalene | % | 94 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 80 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 93 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | % | 94 | | | 70-130 | Pass | |
| Toluene | % | 98 | | | 70-130 | Pass | |
| Ethylbenzene | % | 99 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 99 | | | 70-130 | Pass | |
| o-Xylene | % | 98 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 99 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic (filtered) | % | 94 | | | 80-120 | Pass | |
| Cadmium (filtered) | % | 92 | | | 80-120 | Pass | |
| Chromium (filtered) | % | 94 | | | 80-120 | Pass | |

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| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Copper (filtered) | | | % | 91 | | | 80-120 | Pass | |
| Lead (filtered) | | | % | 92 | | | 80-120 | Pass | |
| Mercury (filtered) | | | % | 100 | | | 80-120 | Pass | |
| Nickel (filtered) | | | % | 92 | | | 80-120 | Pass | |
| Zinc (filtered) | | | % | 90 | | | 80-120 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| Naphthalene | N22-JI0039667 | NCP | % | 93 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | N22-JI0039667 | NCP | % | 97 | | | 70-130 | Pass | |
| Toluene | N22-JI0039667 | NCP | % | 96 | | | 70-130 | Pass | |
| Ethylbenzene | N22-JI0039667 | NCP | % | 94 | | | 70-130 | Pass | |
| m&p-Xylenes | N22-JI0039667 | NCP | % | 95 | | | 70-130 | Pass | |
| o-Xylene | N22-JI0039667 | NCP | % | 94 | | | 70-130 | Pass | |
| Xylenes - Total* | N22-JI0039667 | NCP | % | 95 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic (filtered) | S22-JI0031706 | NCP | % | 95 | | | 75-125 | Pass | |
| Cadmium (filtered) | S22-JI0031706 | NCP | % | 94 | | | 75-125 | Pass | |
| Chromium (filtered) | S22-JI0031706 | NCP | % | 88 | | | 75-125 | Pass | |
| Copper (filtered) | S22-JI0031706 | NCP | % | 90 | | | 75-125 | Pass | |
| Lead (filtered) | S22-JI0031706 | NCP | % | 90 | | | 75-125 | Pass | |
| Mercury (filtered) | S22-JI0031706 | NCP | % | 83 | | | 75-125 | Pass | |
| Nickel (filtered) | S22-JI0031706 | NCP | % | 91 | | | 75-125 | Pass | |
| Zinc (filtered) | S22-JI0031706 | NCP | % | 92 | | | 75-125 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-JI0044015 | CP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| Naphthalene | S22-JI0044015 | CP | mg/L | < 0.01 | < 0.01 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-JI0044015 | CP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-JI0044015 | CP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Toluene | S22-JI0044015 | CP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Ethylbenzene | S22-JI0044015 | CP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-JI0044015 | CP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| o-Xylene | S22-JI0044015 | CP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-JI0044015 | CP | mg/L | < 0.003 | < 0.003 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic (filtered) | S22-JI0031697 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Cadmium (filtered) | S22-JI0031697 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Chromium (filtered) | S22-JI0031697 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Copper (filtered) | S22-JI0031697 | NCP | mg/L | 0.001 | 0.001 | 8.7 | 30% | Pass | |
| Lead (filtered) | S22-JI0031697 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Mercury (filtered) | S22-JI0031697 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Nickel (filtered) | S22-JI0031697 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Zinc (filtered) | S22-JI0031697 | NCP | mg/L | 0.009 | 0.009 | 5.7 | 30% | Pass | |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 3.2°C |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |

### Authorised by:

| | |
|---|---|
| Gabriele Cordero | Senior Analyst-Metal |
| Roopesh Rangarajan | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Volatile |

**Glenn Jackson**
**General Manager**

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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ALS Environmental

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2225932** | Page | : 1 of 6 |
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Contact | : Katie Davis |
| Address | : Level 5, 20 Berry Street, North Sydney, NSW 2060 North Sydney 2060 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Project | : 30013211 Cowra DSI | Date Samples Received | : 22-Jul-2022 14:30 |
| Order number | : 30013211 | Date Analysis Commenced | : 26-Jul-2022 |
| C-O-C number | : ---- | Issue Date | : 01-Aug-2022 17:03 |
| Sampler | : PV | | |
| Site | : ---- | | |
| Quote number | : EN/025/21 | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | : 1 | | |

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

**Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.**

## *Signatories*

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |
| Wisam Marassa | Inorganics Coordinator | Sydney Inorganics, Smithfield, NSW |

## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP132-ST : Insufficient sample has been provided for analysis. Where applicable LOR values have been adjusted accordingly.

## Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | | | Sample ID | QA09A | ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sampling date / time | 19-Jul-2022 00:00 | ---- | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | | ES2225932-001 | -------- | -------- | -------- | -------- |
| | | | | | Result | ---- | ---- | ---- | ---- |
| **EG020F: Dissolved Metals by ICP-MS** | | | | | | | | | |
| **Arsenic** | 7440-38-2 | 0.001 | mg/L | | <0.001 | ---- | ---- | ---- | ---- |
| **Cadmium** | 7440-43-9 | 0.0001 | mg/L | | <0.0001 | ---- | ---- | ---- | ---- |
| **Chromium** | 7440-47-3 | 0.001 | mg/L | | <0.001 | ---- | ---- | ---- | ---- |
| **Copper** | 7440-50-8 | 0.001 | mg/L | | <0.001 | ---- | ---- | ---- | ---- |
| **Nickel** | 7440-02-0 | 0.001 | mg/L | | <0.001 | ---- | ---- | ---- | ---- |
| **Lead** | 7439-92-1 | 0.001 | mg/L | | <0.001 | ---- | ---- | ---- | ---- |
| **Zinc** | 7440-66-6 | 0.005 | mg/L | | <0.005 | ---- | ---- | ---- | ---- |
| **EG035F: Dissolved Mercury by FIMS** | | | | | | | | | |
| **Mercury** | 7439-97-6 | 0.0001 | mg/L | | <0.0001 | ---- | ---- | ---- | ---- |
| **EP080/071: Total Petroleum Hydrocarbons** | | | | | | | | | |
| **C6 - C9 Fraction** | ---- | 20 | µg/L | | <20 | ---- | ---- | ---- | ---- |
| **C10 - C14 Fraction** | ---- | 50 | µg/L | | <50 | ---- | ---- | ---- | ---- |
| **C15 - C28 Fraction** | ---- | 100 | µg/L | | <100 | ---- | ---- | ---- | ---- |
| **C29 - C36 Fraction** | ---- | 50 | µg/L | | <50 | ---- | ---- | ---- | ---- |
| ^ **C10 - C36 Fraction (sum)** | ---- | 50 | µg/L | | <50 | ---- | ---- | ---- | ---- |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions** | | | | | | | | | |
| **C6 - C10 Fraction** | C6_C10 | 20 | µg/L | | <20 | ---- | ---- | ---- | ---- |
| ^ **C6 - C10 Fraction minus BTEX (F1)** | C6_C10-BTEX | 20 | µg/L | | <20 | ---- | ---- | ---- | ---- |
| **>C10 - C16 Fraction** | ---- | 100 | µg/L | | <100 | ---- | ---- | ---- | ---- |
| **>C16 - C34 Fraction** | ---- | 100 | µg/L | | <100 | ---- | ---- | ---- | ---- |
| **>C34 - C40 Fraction** | ---- | 100 | µg/L | | <100 | ---- | ---- | ---- | ---- |
| ^ **>C10 - C40 Fraction (sum)** | ---- | 100 | µg/L | | <100 | ---- | ---- | ---- | ---- |
| ^ **>C10 - C16 Fraction minus Naphthalene (F2)** | ---- | 100 | µg/L | | <100 | ---- | ---- | ---- | ---- |
| **EP080: BTEXN** | | | | | | | | | |
| **Benzene** | 71-43-2 | 1 | µg/L | | <1 | ---- | ---- | ---- | ---- |
| **Toluene** | 108-88-3 | 2 | µg/L | | <2 | ---- | ---- | ---- | ---- |
| **Ethylbenzene** | 100-41-4 | 2 | µg/L | | <2 | ---- | ---- | ---- | ---- |
| **meta- & para-Xylene** | 108-38-3 106-42-3 | 2 | µg/L | | <2 | ---- | ---- | ---- | ---- |
| **ortho-Xylene** | 95-47-6 | 2 | µg/L | | <2 | ---- | ---- | ---- | ---- |
| ^ **Total Xylenes** | ---- | 2 | µg/L | | <2 | ---- | ---- | ---- | ---- |
| ^ **Sum of BTEX** | ---- | 1 | µg/L | | <1 | ---- | ---- | ---- | ---- |
| **Naphthalene** | 91-20-3 | 5 | µg/L | | <5 | ---- | ---- | ---- | ---- |

## Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | | | Sample ID | QA09A | ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sampling date / time | 19-Jul-2022 00:00 | ---- | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | | ES2225932-001 | -------- | -------- | -------- | -------- |
| | | | | | Result | ---- | ---- | ---- | ---- |
| **EP132B: Polynuclear Aromatic Hydrocarbons** | | | | | | | | | |
| Naphthalene | 91-20-3 | 0.004 | µg/L | | <0.020 | ---- | ---- | ---- | ---- |
| 2-Methylnaphthalene | 91-57-6 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Acenaphthylene | 208-96-8 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Acenaphthene | 83-32-9 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Fluorene | 86-73-7 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Phenanthrene | 85-01-8 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Anthracene | 120-12-7 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Fluoranthene | 206-44-0 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Pyrene | 129-00-0 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Benz(a)anthracene | 56-55-3 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Chrysene | 218-01-9 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| 7.12-Dimethylbenz(a)anthracene | 57-97-6 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.004 | µg/L | | <0.020 | ---- | ---- | ---- | ---- |
| Benzo(k)fluoranthene | 207-08-9 | 0.004 | µg/L | | <0.020 | ---- | ---- | ---- | ---- |
| Benzo(e)pyrene | 192-97-2 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Benzo(a)pyrene | 50-32-8 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Perylene | 198-55-0 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| 3-Methylcholanthrene | 56-49-5 | 0.004 | µg/L | | <0.020 | ---- | ---- | ---- | ---- |
| Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Dibenz(a.h)anthracene | 53-70-3 | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| Benzo(g.h.i)perylene | 191-24-2 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| Coronene | 191-07-1 | 0.002 | µg/L | | <0.010 | ---- | ---- | ---- | ---- |
| ^ Sum of 16 US EPA Priority PAHs | ---- | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| ^ Benzo(a)pyrene TEQ (zero) | ---- | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| ^ Benzo(a)pyrene TEQ (half LOR) | ---- | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| ^ Benzo(a)pyrene TEQ (LOR) | ---- | 0.001 | µg/L | | <0.005 | ---- | ---- | ---- | ---- |
| **EP132B: Polynuclear Aromatic Hydrocarbons (super trace)** | | | | | | | | | |
| ^ Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2 207-08-9 | 0.004 | µg/L | | <0.020 | ---- | ---- | ---- | ---- |
| **EP080S: TPH(V)/BTEX Surrogates** | | | | | | | | | |
| 1.2-Dichloroethane-D4 | 17060-07-0 | 2 | % | | 105 | ---- | ---- | ---- | ---- |
| Toluene-D8 | 2037-26-5 | 2 | % | | 114 | ---- | ---- | ---- | ---- |
| 4-Bromofluorobenzene | 460-00-4 | 2 | % | | 97.4 | ---- | ---- | ---- | ---- |
| **EP132T: Base/Neutral Extractable Surrogates** | | | | | | | | | |

## Analytical Results

| Sub-Matrix: **WATER** (Matrix: **WATER**) | | | | Sample ID | QA09A | ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sampling date / time | 19-Jul-2022 00:00 | ---- | ---- | ---- | ---- |
| *Compound* | *CAS Number* | *LOR* | *Unit* | | **ES2225932-001** | -------- | -------- | -------- | -------- |
| | | | | | Result | ---- | ---- | ---- | ---- |
| **EP132T: Base/Neutral Extractable Surrogates - Continued** | | | | | | | | | |
| **2-Fluorobiphenyl** | 321-60-8 | 0.002 | % | | **102** | ---- | ---- | ---- | ---- |
| **Anthracene-d10** | 1719-06-8 | 0.002 | % | | **93.8** | ---- | ---- | ---- | ---- |
| **4-Terphenyl-d14** | 1718-51-0 | 0.002 | % | | **120** | ---- | ---- | ---- | ---- |

## Surrogate Control Limits

Sub-Matrix: **WATER**

| Compound | CAS Number | Recovery Limits (%) Low | High |
|---|---|---|---|
| **EP080S: TPH(V)/BTEX Surrogates** | | | |
| **1.2-Dichloroethane-D4** | 17060-07-0 | 71 | 137 |
| **Toluene-D8** | 2037-26-5 | 79 | 131 |
| **4-Bromofluorobenzene** | 460-00-4 | 70 | 128 |
| **EP132T: Base/Neutral Extractable Surrogates** | | | |
| **2-Fluorobiphenyl** | 321-60-8 | 70 | 130 |
| **Anthracene-d10** | 1719-06-8 | 70 | 130 |
| **4-Terphenyl-d14** | 1718-51-0 | 70 | 130 |

# QUALITY CONTROL REPORT

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2225932** | Page | : 1 of 6 |
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Contact | : Katie Davis |
| Address | : Level 5, 20 Berry Street, North Sydney, NSW 2060 North Sydney 2060 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Project | : 30013211 Cowra DSI | Date Samples Received | : 22-Jul-2022 |
| Order number | : 30013211 | Date Analysis Commenced | : 26-Jul-2022 |
| C-O-C number | : ---- | Issue Date | : 01-Aug-2022 |
| Sampler | : PV | | |
| Site | : ---- | | |
| Quote number | : EN/025/21 | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | : 1 | | |

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

## *Signatories*

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |
| Wisam Marassa | Inorganics Coordinator | Sydney Inorganics, Smithfield, NSW |

## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

## Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| **EG020F: Dissolved Metals by ICP-MS (QC Lot: 4486887)** | | | | | | | | | |
| ES2226007-001 | Anonymous | EG020A-F: Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.0 | No Limit |
| | | EG020A-F: Arsenic | 7440-38-2 | 0.001 | mg/L | 0.002 | 0.001 | 0.0 | No Limit |
| | | EG020A-F: Chromium | 7440-47-3 | 0.001 | mg/L | <0.001 | <0.001 | 0.0 | No Limit |
| | | EG020A-F: Copper | 7440-50-8 | 0.001 | mg/L | <0.001 | <0.001 | 0.0 | No Limit |
| | | EG020A-F: Lead | 7439-92-1 | 0.001 | mg/L | <0.001 | <0.001 | 0.0 | No Limit |
| | | EG020A-F: Nickel | 7440-02-0 | 0.001 | mg/L | <0.001 | <0.001 | 0.0 | No Limit |
| | | EG020A-F: Zinc | 7440-66-6 | 0.005 | mg/L | <0.005 | <0.005 | 0.0 | No Limit |
| EW2203356-001 | Anonymous | EG020A-F: Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.0 | No Limit |
| | | EG020A-F: Arsenic | 7440-38-2 | 0.001 | mg/L | 0.008 | 0.008 | 0.0 | No Limit |
| | | EG020A-F: Chromium | 7440-47-3 | 0.001 | mg/L | 0.002 | 0.002 | 0.0 | No Limit |
| | | EG020A-F: Copper | 7440-50-8 | 0.001 | mg/L | 0.010 | 0.010 | 0.0 | No Limit |
| | | EG020A-F: Lead | 7439-92-1 | 0.001 | mg/L | 0.011 | 0.012 | 0.0 | 0% - 50% |
| | | EG020A-F: Nickel | 7440-02-0 | 0.001 | mg/L | 0.006 | 0.006 | 0.0 | No Limit |
| | | EG020A-F: Zinc | 7440-66-6 | 0.005 | mg/L | 0.178 | 0.178 | 0.0 | 0% - 20% |
| **EG035F: Dissolved Mercury by FIMS (QC Lot: 4486888)** | | | | | | | | | |
| ES2225331-003 | Anonymous | EG035F: Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.0 | No Limit |
| ES2226046-001 | Anonymous | EG035F: Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.0 | No Limit |
| **EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4484019)** | | | | | | | | | |
| ES2226002-001 | Anonymous | EP080: C6 - C9 Fraction | ---- | 20 | µg/L | <20 | <20 | 0.0 | No Limit |
| ES2226002-005 | Anonymous | EP080: C6 - C9 Fraction | ---- | 20 | µg/L | <20 | <20 | 0.0 | No Limit |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4484019)** | | | | | | | | | |
| ES2226002-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | <20 | 0.0 | No Limit |
| ES2226002-005 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | <20 | 0.0 | No Limit |

Sub-Matrix: **WATER**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Laboratory sample ID* | *Sample ID* | *Method: Compound* | *CAS Number* | *LOR* | *Unit* | *Original Result* | *Duplicate Result* | *RPD (%)* | *Acceptable RPD (%)* |
| **EP080: BTEXN (QC Lot: 4484019)** | | | | | | | | | |
| ES2226002-001 | Anonymous | EP080: Benzene | 71-43-2 | 1 | µg/L | <1 | <1 | 0.0 | No Limit |
| | | EP080: Toluene | 108-88-3 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: Naphthalene | 91-20-3 | 5 | µg/L | <5 | <5 | 0.0 | No Limit |
| ES2226002-005 | Anonymous | EP080: Benzene | 71-43-2 | 1 | µg/L | <1 | <1 | 0.0 | No Limit |
| | | EP080: Toluene | 108-88-3 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | <2 | 0.0 | No Limit |
| | | EP080: Naphthalene | 91-20-3 | 5 | µg/L | <5 | <5 | 0.0 | No Limit |

## Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

| | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Spike Recovery (%) | Acceptable Limits (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | Low | High |
| **EG020F: Dissolved Metals by ICP-MS (QCLot: 4486887)** | | | | | | | | |
| EG020A-F: Arsenic | 7440-38-2 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 90.9 | 85.0 | 114 |
| EG020A-F: Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 | 0.1 mg/L | 90.7 | 84.0 | 110 |
| EG020A-F: Chromium | 7440-47-3 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 88.6 | 85.0 | 111 |
| EG020A-F: Copper | 7440-50-8 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 89.9 | 81.0 | 111 |
| EG020A-F: Lead | 7439-92-1 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 88.7 | 83.0 | 111 |
| EG020A-F: Nickel | 7440-02-0 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 88.5 | 82.0 | 112 |
| EG020A-F: Zinc | 7440-66-6 | 0.005 | mg/L | <0.005 | 0.1 mg/L | 88.6 | 81.0 | 117 |
| **EG035F: Dissolved Mercury by FIMS (QCLot: 4486888)** | | | | | | | | |
| EG035F: Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | 0.01 mg/L | 92.3 | 83.0 | 105 |
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4479295)** | | | | | | | | |
| EP071: C10 - C14 Fraction | ---- | 50 | µg/L | <50 | 400 µg/L | 64.3 | 53.7 | 97.0 |
| EP071: C15 - C28 Fraction | ---- | 100 | µg/L | <100 | 600 µg/L | 81.1 | 63.3 | 107 |
| EP071: C29 - C36 Fraction | ---- | 50 | µg/L | <50 | 400 µg/L | 83.2 | 58.3 | 120 |
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4484019)** | | | | | | | | |
| EP080: C6 - C9 Fraction | ---- | 20 | µg/L | <20 | 260 µg/L | 88.1 | 75.0 | 127 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4479295)** | | | | | | | | |
| EP071: >C10 - C16 Fraction | ---- | 100 | µg/L | <100 | 500 µg/L | 66.4 | 53.9 | 95.5 |
| EP071: >C16 - C34 Fraction | ---- | 100 | µg/L | <100 | 700 µg/L | 99.5 | 57.8 | 110 |
| EP071: >C34 - C40 Fraction | ---- | 100 | µg/L | <100 | 300 µg/L | 89.8 | 50.5 | 115 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4484019)** | | | | | | | | |
| EP080: C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | 310 µg/L | 92.4 | 75.0 | 127 |
| **EP080: BTEXN (QCLot: 4484019)** | | | | | | | | |
| EP080: Benzene | 71-43-2 | 1 | µg/L | <1 | 10 µg/L | 98.9 | 70.0 | 122 |
| EP080: Toluene | 108-88-3 | 2 | µg/L | <2 | 10 µg/L | 93.6 | 69.0 | 123 |
| EP080: Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | 10 µg/L | 101 | 70.0 | 120 |
| EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 2 | µg/L | <2 | 10 µg/L | 92.6 | 69.0 | 121 |
| EP080: ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | 10 µg/L | 104 | 72.0 | 122 |
| EP080: Naphthalene | 91-20-3 | 5 | µg/L | <5 | 10 µg/L | 109 | 70.0 | 120 |
| **EP132B: Polynuclear Aromatic Hydrocarbons (super trace) (QCLot: 4480355)** | | | | | | | | |
| EP132-ST: Acenaphthene | 83-32-9 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 108 | 70.0 | 130 |
| EP132-ST: Acenaphthylene | 208-96-8 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 97.0 | 70.0 | 130 |
| EP132-ST: Anthracene | 120-12-7 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 110 | 70.0 | 130 |

Sub-Matrix: **WATER**

| Method: Compound | CAS Number | LOR | Unit | Method Blank (MB) Report: Result | Laboratory Control Spike (LCS) Report: Spike Concentration | Spike Recovery (%): LCS | Acceptable Limits (%): Low | Acceptable Limits (%): High |
|---|---|---|---|---|---|---|---|---|
| **EP132B: Polynuclear Aromatic Hydrocarbons (super trace) (QCLot: 4480355) - continued** | | | | | | | | |
| EP132-ST: Benz(a)anthracene | 56-55-3 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 103 | 70.0 | 130 |
| EP132-ST: Benzo(a)pyrene | 50-32-8 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 95.1 | 70.0 | 130 |
| EP132-ST: Benzo(b+j)fluoranthene | 205-99-2<br>205-82-3 | 0.004 | µg/L | <0.004 | 0.01 µg/L | 107 | 70.0 | 130 |
| EP132-ST: Benzo(e)pyrene | 192-97-2 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 102 | 70.0 | 130 |
| EP132-ST: Benzo(g.h.i)perylene | 191-24-2 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 114 | 70.0 | 130 |
| EP132-ST: Benzo(k)fluoranthene | 207-08-9 | 0.004 | µg/L | <0.004 | 0.01 µg/L | 95.0 | 70.0 | 130 |
| EP132-ST: Chrysene | 218-01-9 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 119 | 70.0 | 130 |
| EP132-ST: Coronene | 191-07-1 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 106 | 70.0 | 130 |
| EP132-ST: Dibenz(a.h)anthracene | 53-70-3 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 107 | 70.0 | 130 |
| EP132-ST: 7.12-Dimethylbenz(a)anthracene | 57-97-6 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 101 | 70.0 | 130 |
| EP132-ST: Fluoranthene | 206-44-0 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 109 | 70.0 | 130 |
| EP132-ST: Fluorene | 86-73-7 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 116 | 70.0 | 130 |
| EP132-ST: Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 109 | 70.0 | 130 |
| EP132-ST: 3-Methylcholanthrene | 56-49-5 | 0.004 | µg/L | <0.004 | 0.01 µg/L | 109 | 70.0 | 130 |
| EP132-ST: 2-Methylnaphthalene | 91-57-6 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 95.1 | 70.0 | 130 |
| EP132-ST: Naphthalene | 91-20-3 | 0.004 | µg/L | <0.004 | 0.01 µg/L | 93.6 | 70.0 | 130 |
| EP132-ST: Phenanthrene | 85-01-8 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 111 | 70.0 | 130 |
| EP132-ST: Perylene | 198-55-0 | 0.002 | µg/L | <0.002 | 0.01 µg/L | 110 | 70.0 | 130 |
| EP132-ST: Pyrene | 129-00-0 | 0.001 | µg/L | <0.001 | 0.01 µg/L | 113 | 70.0 | 130 |
| EP132-ST: Sum of 16 US EPA Priority PAHs | ---- | 0.001 | µg/L | <0.001 | ---- | ---- | ---- | ---- |
| EP132-ST: Benzo(a)pyrene TEQ (zero) | ---- | 0.001 | µg/L | <0.001 | ---- | ---- | ---- | ---- |
| EP132-ST: Benzo(a)pyrene TEQ (half LOR) | ---- | 0.001 | µg/L | <0.001 | ---- | ---- | ---- | ---- |
| EP132-ST: Benzo(a)pyrene TEQ (LOR) | ---- | 0.001 | µg/L | <0.001 | ---- | ---- | ---- | ---- |

## *Matrix Spike (MS) Report*

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Matrix Spike (MS) Report: Spike Concentration | SpikeRecovery(%): MS | Acceptable Limits (%): Low | Acceptable Limits (%): High |
|---|---|---|---|---|---|---|---|
| **EG020F: Dissolved Metals by ICP-MS (QCLot: 4486887)** | | | | | | | |
| ES2225331-001 | Anonymous | EG020A-F: Arsenic | 7440-38-2 | 1 mg/L | 84.9 | 70.0 | 130 |
| | | EG020A-F: Cadmium | 7440-43-9 | 0.25 mg/L | 89.6 | 70.0 | 130 |
| | | EG020A-F: Chromium | 7440-47-3 | 1 mg/L | 86.7 | 70.0 | 130 |
| | | EG020A-F: Copper | 7440-50-8 | 1 mg/L | 86.8 | 70.0 | 130 |
| | | EG020A-F: Lead | 7439-92-1 | 1 mg/L | 77.0 | 70.0 | 130 |
| | | EG020A-F: Nickel | 7440-02-0 | 1 mg/L | 85.5 | 70.0 | 130 |

Sub-Matrix: **WATER**

| | | | | Matrix Spike (MS) Report | | | |
|---|---|---|---|---|---|---|---|
| | | | | Spike | SpikeRecovery(%) | Acceptable Limits (%) | |
| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Concentration | MS | Low | High |
| **EG020F: Dissolved Metals by ICP-MS (QCLot: 4486887) - continued** | | | | | | | |
| ES2225331-001 | Anonymous | EG020A-F: Zinc | 7440-66-6 | 1 mg/L | 87.5 | 70.0 | 130 |
| **EG035F: Dissolved Mercury by FIMS (QCLot: 4486888)** | | | | | | | |
| ES2225331-002 | Anonymous | EG035F: Mercury | 7439-97-6 | 0.01 mg/L | 81.0 | 70.0 | 130 |
| **EP080/071: Total Petroleum Hydrocarbons (QCLot: 4484019)** | | | | | | | |
| ES2226002-001 | Anonymous | EP080: C6 - C9 Fraction | ---- | 325 µg/L | 117 | 70.0 | 130 |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4484019)** | | | | | | | |
| ES2226002-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 375 µg/L | 118 | 70.0 | 130 |
| **EP080: BTEXN (QCLot: 4484019)** | | | | | | | |
| ES2226002-001 | Anonymous | EP080: Benzene | 71-43-2 | 25 µg/L | 113 | 70.0 | 130 |
| | | EP080: Toluene | 108-88-3 | 25 µg/L | 111 | 70.0 | 130 |
| | | EP080: Ethylbenzene | 100-41-4 | 25 µg/L | 117 | 70.0 | 130 |
| | | EP080: meta- & para-Xylene | 108-38-3<br>106-42-3 | 25 µg/L | 110 | 70.0 | 130 |
| | | EP080: ortho-Xylene | 95-47-6 | 25 µg/L | 122 | 70.0 | 130 |
| | | EP080: Naphthalene | 91-20-3 | 25 µg/L | 114 | 70.0 | 130 |

# QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2225932** | Page | : 1 of 5 |
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Telephone | : +61-2-8784 8555 |
| Project | : 30013211 Cowra DSI | Date Samples Received | : 22-Jul-2022 |
| Site | : ---- | Issue Date | : 01-Aug-2022 |
| Sampler | : PV | No. of samples received | : 1 |
| Order number | : 30013211 | No. of samples analysed | : 1 |

**This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.**

Brief method summaries and references are also provided to assist in traceability.

## Summary of Outliers

### Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

### Outliers : Analysis Holding Time Compliance

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

### Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

## Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

| Quality Control Sample Type / Method | Count QC | Count Regular | Rate (%) Actual | Rate (%) Expected | Quality Control Specification |
|---|---|---|---|---|---|
| **Laboratory Duplicates (DUP)** | | | | | |
| PAH Compounds in Water | 0 | 6 | 0.00 | 10.00 | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | 0 | 9 | 0.00 | 10.00 | NEPM 2013 B3 & ALS QC Standard |
| **Matrix Spikes (MS)** | | | | | |
| PAH Compounds in Water | 0 | 6 | 0.00 | 5.00 | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | 0 | 9 | 0.00 | 5.00 | NEPM 2013 B3 & ALS QC Standard |

## Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| Method / Container / Client Sample ID(s) | Sample Date | Extraction / Preparation: Date extracted | Extraction / Preparation: Due for extraction | Extraction / Preparation: Evaluation | Analysis: Date analysed | Analysis: Due for analysis | Analysis: Evaluation |
|---|---|---|---|---|---|---|---|
| **EG020F: Dissolved Metals by ICP-MS** | | | | | | | |
| **Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)** | | | | | | | |
| QA09A | **19-Jul-2022** | **----** | ---- | ---- | **29-Jul-2022** | 15-Jan-2023 | ✓ |
| **EG035F: Dissolved Mercury by FIMS** | | | | | | | |
| **Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)** | | | | | | | |
| QA09A | **19-Jul-2022** | **----** | ---- | ---- | **29-Jul-2022** | 16-Aug-2022 | ✓ |
| **EP080/071: Total Petroleum Hydrocarbons** | | | | | | | |
| **Amber Glass Bottle - Unpreserved (EP071)** | | | | | | | |
| QA09A | **19-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **28-Jul-2022** | 04-Sep-2022 | ✓ |
| **Clear glass VOC vial - HCl (EP080)** | | | | | | | |
| QA09A | **19-Jul-2022** | **28-Jul-2022** | 02-Aug-2022 | ✓ | **28-Jul-2022** | 02-Aug-2022 | ✓ |
| **EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions** | | | | | | | |
| **Amber Glass Bottle - Unpreserved (EP071)** | | | | | | | |
| QA09A | **19-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **28-Jul-2022** | 04-Sep-2022 | ✓ |
| **Clear glass VOC vial - HCl (EP080)** | | | | | | | |
| QA09A | **19-Jul-2022** | **28-Jul-2022** | 02-Aug-2022 | ✓ | **28-Jul-2022** | 02-Aug-2022 | ✓ |
| **EP080: BTEXN** | | | | | | | |
| **Clear glass VOC vial - HCl (EP080)** | | | | | | | |
| QA09A | **19-Jul-2022** | **28-Jul-2022** | 02-Aug-2022 | ✓ | **28-Jul-2022** | 02-Aug-2022 | ✓ |
| **EP132B: Polynuclear Aromatic Hydrocarbons** | | | | | | | |
| **Amber Glass Bottle - Unpreserved (EP132-ST)** | | | | | | | |
| QA09A | **19-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **28-Jul-2022** | 04-Sep-2022 | ✓ |

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| Method / Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| **EP132B: Polynuclear Aromatic Hydrocarbons (super trace)** | | | | | | | |
| **Amber Glass Bottle - Unpreserved (EP132-ST)** | | | | | | | |
| QA09A | **19-Jul-2022** | **26-Jul-2022** | 26-Jul-2022 | ✓ | **28-Jul-2022** | 04-Sep-2022 | ✓ |

# Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

| Quality Control Sample Type | | Count | | Rate (%) | | | Quality Control Specification |
|---|---|---|---|---|---|---|---|
| *Analytical Methods* | *Method* | *QC* | *Regular* | ***Actual*** | ***Expected*** | *Evaluation* | |
| Laboratory Duplicates (DUP) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 2 | 20 | **10.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 2 | 20 | **10.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| PAH Compounds in Water | EP132-ST | 0 | 6 | **0.00** | **10.00** | × | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 0 | 9 | **0.00** | **10.00** | × | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 2 | 20 | **10.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| PAH Compounds in Water | EP132-ST | 1 | 6 | **16.67** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 9 | **11.11** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| PAH Compounds in Water | EP132-ST | 1 | 6 | **16.67** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 9 | **11.11** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| PAH Compounds in Water | EP132-ST | 0 | 6 | **0.00** | **5.00** | × | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 0 | 9 | **0.00** | **5.00** | × | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |

## Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods | Method | Matrix | Method Descriptions |
|---|---|---|---|
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | WATER | In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector. |
| Dissolved Mercury by FIMS | EG035F | WATER | In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3). |
| TRH - Semivolatile Fraction | EP071 | WATER | In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3) |
| TRH Volatiles/BTEX | EP080 | WATER | In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3) |
| PAH Compounds in Water | EP132-ST | WATER | In house, Samples are extracted into solvent in original containers. Determination by large volume injection GCMS in selected ion monitoring (SIM) mode. |

| Preparation Methods | Method | Matrix | Method Descriptions |
|---|---|---|---|
| Separatory Funnel Extraction of Liquids | ORG14 | WATER | In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container. |
| Liquid Liquid Extraction (in-bottle - trace) - | ORG14-IB-ST | WATER | In house: A 50 mL of representative portion of a 500 mL sample is discarded. A portion of solvent (less dense than water) is used to extract the sample (horizontal shaker for 30 minutes) and a portion of the extract analysed directly. |
| Volatiles Water Preparation | ORG16-W | WATER | A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging. |

# SAMPLE RECEIPT NOTIFICATION (SRN)

**Work Order** : **ES2225932**

| | | | |
|---|---|---|---|
| Client | : **SMEC AUSTRALIA PTY LTD** | Laboratory | : Environmental Division Sydney |
| Contact | : Steven Drysdale | Contact | : Katie Davis |
| Address | : Level 5, 20 Berry Street, North Sydney, NSW 2060<br>North Sydney 2060 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| E-mail | : steven.drysdale@smec.com | E-mail | : katie.davis@alsglobal.com |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Facsimile | : ---- | Facsimile | : +61-2-8784 8500 |
| Project | : 30013211 Cowra DSI | Page | : 1 of 2 |
| Order number | : ---- | Quote number | : ES2021SMEAUS0010 (EN/025/21) |
| C-O-C number | : ---- | QC Level | : NEPM 2013 B3 & ALS QC Standard |
| Site | : ---- | | |
| Sampler | : PV | | |

## Dates

| | | | |
|---|---|---|---|
| Date Samples Received | : 22-Jul-2022 14:30 | Issue Date | : 25-Jul-2022 |
| Client Requested Due Date | : 01-Aug-2022 | Scheduled Reporting Date | : **01-Aug-2022** |

## Delivery Details

| | | | |
|---|---|---|---|
| Mode of Delivery | : Carrier | Security Seal | : Not Available |
| No. of coolers/boxes | : 1 | Temperature | : 14.8' C - Ice Bricks present |
| Receipt Detail | : | No. of samples received / analysed | : 1 / 1 |

## General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

## Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

## Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **WATER**

| Laboratory sample ID | Sampling date / time | Sample ID | WATER - EP132-ST Super Trace PAHs | WATER - W-05 TRH/BTEXN/8 Metals |
|---|---|---|---|---|
| ES2225932-001 | 19-Jul-2022 00:00 | QA09A | ✓ | ✓ |

## Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

## Requested Deliverables

**ACCOUNTS INVOICES**

| | | |
|---|---|---|
| - A4 - AU Tax Invoice (INV) | Email | accounts.payable@smec.com |

**Pauline Voukidis**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | pauline.voukidis@smec.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | pauline.voukidis@smec.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | pauline.voukidis@smec.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | pauline.voukidis@smec.com |
| - Chain of Custody (CoC) (COC) | Email | pauline.voukidis@smec.com |
| - EDI Format - ENMRG (ENMRG) | Email | pauline.voukidis@smec.com |
| - EDI Format - ESDAT (ESDAT) | Email | pauline.voukidis@smec.com |

**Steven Drysdale**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | steven.drysdale@smec.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | steven.drysdale@smec.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | steven.drysdale@smec.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | steven.drysdale@smec.com |
| - Chain of Custody (CoC) (COC) | Email | steven.drysdale@smec.com |
| - EDI Format - ENMRG (ENMRG) | Email | steven.drysdale@smec.com |
| - EDI Format - ESDAT (ESDAT) | Email | steven.drysdale@smec.com |

SMEC

# CHAIN OF CUSTODY FORM

| | | | |
|---|---|---|---|
| SMEC OFFICE: SMEC North Sydney<br>PROJECT: Cowra DSI | TURNAROUND REQUIREMENTS : ☐ Standard - 5 day TAT | | LAB: ALS<br>ATTENTION:<br>Sample Receipt (Jason Dighton)<br>DISPATCH TO (ADDRESS & PHONE NO.):<br>277-289 Woodpark Rd, Smithfield NSW 2164<br>PH: 8784 8555 |
| PROJECT NUMBER: 30013211 | LAB QUOTE NO.: | | |
| PROJECT MANAGER: Steven Drysdale | CONTACT PH: 0422 156 256 | | |
| SAMPLED BY: PV | | | |
| DATE SAMPLED: 19/07/2022 | | | |
| Email Reports to (will default to PM if blank):<br>STEVEN.DRYSDALE@SMEC.COM,<br>PAULINE.VOUKIDIS@SMEC.COM | RELINQUISHED BY:<br>DATE/TIME:<br>PV<br>20/07/2022<br>1230 | RECEIVED BY: DATE/TIME:<br>20/7/22 12:41pm | RECEIVED BY: DATE/TIME:<br>L Clifton<br>22/07/22 1430 |
| Email Invoice to (will default to PM if blank):<br>STEVEN.DRYSDALE@SMEC.COM | | | |
| Special Laboratory Instructions:<br>ESDAT FORMAT RESULTS PLEASE | | | |

NOTES:

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | SAMPLE MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | HOLD | Suite W5 (TRH, BTEX, metals) | PAH super ultra trace analysis | | | | | | |
| 1 | QA09A | 19/07/2022 | W | 4 Bottles* | 4 | | X | X | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | TOTAL | 4 | | | | | | | | | |

Notes:

Environmental Division
Sydney
Work Order Reference
ES2225932

Telephone : +61-2-8784 8555

**From:** Pauline VOUKIDIS <Pauline.Voukidis@smec.com>
**Sent:** Monday, 1 August 2022 10:02 AM
**To:** Emma Beesley <EmmaBeesley@eurofins.com>; #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>
**Subject:** 907569 TCLP Analysis

**CAUTION:** EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Emma/Eurofins,

Can I please schedule the following analysis on samples from batch 907569?

- **TCLP Arsenic** for sample BH12/0.3-0.5
- **TCLP BaP** for sample TP23/0.3-0.4
- **TCLP Lead** for samples BH12/0.9-1.0, TP26/0.3-0.4, SS50/0.00-0.05

Thank you
**Pauline Voukidis**
Environmental Engineer
E Pauline.Voukidis@smec.com
Level 5, 20 Berry Street, North Sydney, NSW, 2060, Australia

**SMEC Australia We're redefining exceptional**

www.smec.com LinkedIn YouTube Instagram

SMEC
Member of the Surbana Jurong Group

SMEC acknowledges the Traditional Custodians of Country throughout Australia and their connections to land, sea and community. We pay our respect to their elders past, present and emerging and extend that respect to all First Nations peoples today.

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**

ABN: 50 005 085 521

| Melbourne | Geelong | Sydney | Canberra | Brisbane | Newcastle |
|---|---|---|---|---|---|
| 6 Monterey Road | 19/8 Lewalan Street | 179 Magowar Road | Unit 1,2 Dacre Street | 1/21 Smallwood Place | 4/52 Industrial Drive |
| Dandenong South | Grovedale | Girraween | Mitchell | Murarrie | Mayfield East NSW 2304 |
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| NATA# 1261 Site# 1254 | NATA# 1261 Site# 1254 | NATA# 1261 Site# 18217 | | NATA# 1261 Site# 20794 | NATA# 1261 Site# 25079 |

**Eurofins ARL Pty Ltd**

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|---|
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| Welshpool |
| WA 6106 |
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| NATA# 2377 Site# 2370 |

**Eurofins Environment Testing NZ Ltd**

NZBN: 9429046024954

| Auckland | Christchurch |
|---|---|
| 35 O'Rorke Road | 43 Detroit Drive |
| Penrose, | Rolleston, |
| Auckland 1061 | Christchurch 7675 |
| Tel: +64 9 526 45 51 | Tel: 0800 856 450 |
| IANZ# 1327 | IANZ# 1290 |

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | SMEC Australia Pty Ltd (SYD) |
| **Contact name:** | Pauline Voukidis |
| **Project name:** | ADDITIONAL: COWRA DSI |
| **Project ID:** | 30013211 |
| **Turnaround time:** | 5 Day |
| **Date/Time received** | Aug 1, 2022 10:02 AM |
| **Eurofins reference** | 910946 |

## Sample Information

| | |
|---|---|
| ✓ | A detailed list of analytes logged into our LIMS, is included in the attached summary table. |
| ✓ | Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 4.3 degrees Celsius. |
| ✓ | All samples have been received as described on the above COC. |
| ✓ | COC has been completed correctly. |
| ✓ | Attempt to chill was evident. |
| ✓ | Appropriately preserved sample containers have been used. |
| ✓ | All samples were received in good condition. |
| ✓ | Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times. |
| ✓ | Appropriate sample containers have been used. |
| ✓ | Sample containers for volatile analysis received with zero headspace. |
| X | Split sample sent to requested external lab. |
| X | Some samples have been subcontracted. |
| N/A | Custody Seals intact (if used). |

## Notes

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Emma Beesley on phone : or by email: EmmaBeesley@eurofins.com**

Results will be delivered electronically via email to Pauline Voukidis - Pauline.Voukidis@smec.com.

*Note: A copy of these results will also be delivered to the general SMEC Australia Pty Ltd (SYD) email address.*

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261 Site# 18217

**Canberra**
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Tel: +61 2 6113 8091

**Brisbane**
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QLD 4172
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**Newcastle**
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NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
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Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** ADDITIONAL: COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 910946
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Aug 1, 2022 10:02 AM
**Due:** Aug 8, 2022
**Priority:** 5 Day
**Contact Name:** Pauline Voukidis

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Arsenic | Benzo(a)pyrene | Lead | USA Leaching Procedure |
|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | BH12/0.3-0.5 | Jul 11, 2022 | | US Leachate | S22-Au0005932 | X | | | X |
| 2 | BH23/0.3-0.4 | Jul 13, 2022 | | US Leachate | S22-Au0005933 | | X | | X |
| 3 | BH12/0.9-1.0 | Jul 11, 2022 | | US Leachate | S22-Au0005934 | | | X | X |
| 4 | TP26/0.3-0.4 | Jul 13, 2022 | | US Leachate | S22-Au0005935 | | | X | X |
| 5 | SS50/0.00-0.05 | Jul 11, 2022 | | US Leachate | S22-Au0005936 | | | X | X |
| **Test Counts** | | | | | | 1 | 1 | 3 | 5 |

**SMEC Australia Pty Ltd**
**Level 6, 76 Berry Street**
**North Sydney**
**NSW 2060**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 18217**

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**Attention:** **Pauline Voukidis**

**Report** **910946-L**
Project name ADDITIONAL: COWRA DSI
Project ID 30013211
Received Date Aug 01, 2022

| **Client Sample ID** | | | **BH12/0.3-0.5** | **TP23/0.3-0.4** | **BH12/0.9-1.0** | **TP26/0.3-0.4** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **US Leachate** | **US Leachate** | **US Leachate** | **US Leachate** |
| **Eurofins Sample No.** | | | **S22-Au0005932** | **S22-Au0005933** | **S22-Au0005934** | **S22-Au0005935** |
| **Date Sampled** | | | **Jul 11, 2022** | **Jul 13, 2022** | **Jul 11, 2022** | **Jul 13, 2022** |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic | 0.01 | mg/L | < 0.01 | - | - | - |
| Lead | 0.01 | mg/L | - | - | 0.02 | 0.79 |
| **USA Leaching Procedure** | | | | | | |
| Leachate Fluid[C01] | | comment | 1.0 | 1.0 | 1.0 | 1.0 |
| pH (initial) | 0.1 | pH Units | 8.2 | 8.6 | 8.5 | 8.8 |
| pH (off) | 0.1 | pH Units | 5.1 | 5.2 | 5.3 | 5.6 |
| pH (USA HCl addition) | 0.1 | pH Units | 1.0 | 1.1 | 1.1 | 1.1 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene | 0.001 | mg/L | - | < 0.001 | - | - |

| **Client Sample ID** | | | **SS50/0.00-0.05** |
|---|---|---|---|
| **Sample Matrix** | | | **US Leachate** |
| **Eurofins Sample No.** | | | **S22-Au0005936** |
| **Date Sampled** | | | **Jul 11, 2022** |
| Test/Reference | LOR | Unit | |
| **Heavy Metals** | | | |
| Lead | 0.01 | mg/L | 0.25 |
| **USA Leaching Procedure** | | | |
| Leachate Fluid[C01] | | comment | 1.0 |
| pH (initial) | 0.1 | pH Units | 8.7 |
| pH (off) | 0.1 | pH Units | 5.2 |
| pH (USA HCl addition) | 0.1 | pH Units | 1.1 |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Heavy Metals | Sydney | Aug 03, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| USA Leaching Procedure | Sydney | Aug 03, 2022 | 14 Days |
| - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes | | | |
| Polycyclic Aromatic Hydrocarbons | Sydney | Aug 03, 2022 | 7 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |

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email: EnviroSales@eurofins.com

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**Geelong**
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Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
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NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

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Tel: +61 2 6113 8091

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NATA# 1261 Site# 20794

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Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

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**Christchurch**
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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SMEC Australia Pty Ltd (SYD)
**Address:** Level 6, 76 Berry Street
North Sydney
NSW 2060

**Project Name:** ADDITIONAL: COWRA DSI
**Project ID:** 30013211

**Order No.:**
**Report #:** 910946
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Aug 1, 2022 10:02 AM
**Due:** Aug 4, 2022
**Priority:** 3 Day
**Contact Name:** Pauline Voukidis

**Eurofins Analytical Services Manager : Emma Beesley**

| Sample Detail | | | | | | Arsenic | Benzo(a)pyrene | Lead | USA Leaching Procedure |
|---|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X | X |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | BH12/0.3-0.5 | Jul 11, 2022 | | US Leachate | S22-Au0005932 | X | | | X |
| 2 | TP23/0.3-0.4 | Jul 13, 2022 | | US Leachate | S22-Au0005933 | | X | | X |
| 3 | BH12/0.9-1.0 | Jul 11, 2022 | | US Leachate | S22-Au0005934 | | | X | X |
| 4 | TP26/0.3-0.4 | Jul 13, 2022 | | US Leachate | S22-Au0005935 | | | X | X |
| 5 | SS50/0.00-0.05 | Jul 11, 2022 | | US Leachate | S22-Au0005936 | | | X | X |
| **Test Counts** | | | | | | 1 | 1 | 3 | 5 |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

**mg/kg:** milligrams per kilogram
**mg/L:** milligrams per litre
**µg/L:** micrograms per litre
**ppm:** parts per million
**ppb:** parts per billion
**%:** Percentage
**org/100 mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **COC** | Chain of Custody |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **CRM** | Certified Reference Material (ISO17034) - reported as percent recovery. |
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **LOR** | Limit of Reporting. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **Method Blank** | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| **NCP** | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **SRA** | Sample Receipt Advice |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **TBTO** | Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **TEQ** | Toxic Equivalency Quotient or Total Equivalence |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **US EPA** | United States Environmental Protection Agency |
| **WA DWER** | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | | | |
| **Heavy Metals** | | | | | | | | | |
| Arsenic | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| Lead | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | | | | | | |
| Arsenic | | | % | 120 | | | 80-120 | Pass | |
| Lead | | | % | 120 | | | 80-120 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S22-Au0008050 | NCP | % | 96 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Lead | S22-Au0008050 | NCP | % | 94 | | | 75-125 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | B22-Jl0051544 | NCP | mg/L | < 0.01 | < 0.01 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Lead | B22-Jl0051544 | NCP | mg/L | 110 | 110 | <1 | 30% | Pass | |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 4.3°C |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| C01 | Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other |

### Authorised by:

| | |
|---|---|
| Quinn Raw | Analytical Services Manager |
| Gabriele Cordero | Senior Analyst-Metal |
| Roopesh Rangarajan | Senior Analyst-Organic |



**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Email: Sydney.Reception@smec.com

We're redefining exceptional

Through our specialist expertise, we're challenging boundaries to deliver advanced infrastructure solutions.

www.smec.com

**Cowra Hospital Redevelopment**
64 Liverpool St
Cowra
NSW 2794 Australia

| MAIL TYPE | MAIL NUMBER | REFERENCE NUMBER |
|---|---|---|
| Response to RFI | SMEC-RTRFI-000001 | SMEC-GCOR-000015 |

# Re: Cowra Hospital Redevelopment - Revised PSI and DSI Reports

| | |
|---|---|
| From | Mr Steven Drysdale - SMEC AUSTRALIA PTY LTD |
| To | Ms Sophie Smith - Central West Project Management |
| Cc (4) | Mr Michael Godden - Central West Project Management |
| | Mr Jamie Pinkerton - Central West Project Management |
| | Steven Shaw - SMEC AUSTRALIA PTY LTD |
| | Mr Manuel Fernandez - SMEC AUSTRALIA PTY LTD |
| Sent | Thursday, 20 April 2023 |

MESSAGE

Hi Sophie,

Please see responses below.

*Please provide a statement to confirm the recommendations and management requirements within the DSI are still valid.*
SMEC confirms the recommendations and management requirements within the DSI remain valid for the current site setting and design.

*Please provide a statement clearly advising that a RAP is not required and that the site is suitable for the proposed hospital development in its contaminated state.*
Based on the findings of the DSI, SMEC does not consider a RAP to be required, with the site considered to be suitable for the proposed hospital development subject to the implementation of the management measures detailed in the report, and absence of unexpected finds triggering the requirement for a RAP.

Cheers,
Steven Drysdale
Manager - Environment, Sydney
SMEC Australia Pty Ltd

---

**From:** S Smith
**Sent:** 17/04/2023 1:02:49 PM AEST (GMT +10:00)
**To:** Steven Drysdale
**Cc:** Michael Godden, Jamie Pinkerton, Manuel Fernandez, Steven Shaw
**Mail Number:** CWPMPL-GCOR-001219
**Subject:** Re: Cowra Hospital Redevelopment - Revised PSI and DSI Reports

Hi Steve,