30013640 - EN – V05 - SSDA

26 February 2026

Health Infrastructure
C/O Capital Insight
99 Walker Street, North Sydney NSW 2060

Attention: Steven Botterill

Dear Steven,

RE: **The New Bankstown Hospital – SEARs Requirement No.17 Contamination and Remediation**

## 1 Introduction

This letter has been prepared by SMEC on behalf of the Health Infrastructure NSW for the New Bankstown - Hospital project located at 490 Chapel Road, Bankstown. Specifically, this letter has been prepared to address SEARs requirement No.17 Contamination and Remediation in support of the SSDA application for the project. SEARs requirement No.17 Contamination and Remediation, states the following:

- *"In accordance with Chapter 4 of SEPP (Resilience and Hazards) 2021, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development."*

## 2 Background Information

SMEC have been engaged as contamination consultants for the project and have completed the following investigations at the site to date. Copies of the reports are attached to this letter:

- ***SMEC (21 March 2025), Detailed Site Investigation, Bankstown New Hospital***
- ***SMEC (25 November 2025) Remedial Action Plan (Rev 4), Bankstown New Hospital – 490 Chapel Road, Bankstown***

Category 1 remediation of the site (due to the site being located within a floodway), in accordance with the appended RAP (revision 4), is separately proposed in DA-1417/2025 which is currently under assessment by Canterbury-Bankstown Council. Remediation anticipated to be approved under that DA will be carried out prior to commencement of works proposed in this SSDA.

## 3 Report(s) Conclusions

### 3.1 DSI (21 March 2025)

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The DSI concluded:

A Remedial Action Plan (RAP) be prepared to document the contamination remediation and management requirements (determined through risk-based assessments, considering proposed development types, layouts, type of structures, site controls, receptors, and potential site-specific exposure). The development may be adjusted to optimise environmental, sustainability, cost and compliance outcomes.

Items which the RAP should consider include (but not limited to):

- Removal of all hazardous building materials from all above and below ground infrastructure that require demolition in accordance with relevant regulations and codes along with adequate assessment and clearance prior to demolition to avoid the introduction of contamination to the ground.
- Further assessment of areas below building footprints that were not accessible at the time of this investigation following demolition.
- Further assessment/validation following removal of the transformer.
- Remediation and validation of known areas of contamination.
- Removal/abandonment of the underground storage tank and pipework including validation. The method will depend on development details and to comply with relevant guidelines.
- Excavation and material segregation requirements (including stockpiling, waste classification and disposal/reuse protocols) and protocols aiming at minimising unintended mixing of different material types to enable reuse in specific areas of the Site or to manage offsite disposal classifications. This will have emphasis on careful excavation and management of soils in areas of former structures (southern and central part of the Site) with a method for segregation and validation to reduce potential for bulk cross contamination.
- Management of groundwater for disposal if this is required as part of construction.
- An unexpected finds protocol to manage contamination if it were uncovered during redevelopment of the Site. If contamination is identified during construction, then it should be adequately remediated or managed in a way that makes the Site suitable for the proposed development, including relevant validation and reporting.

### 3.2 RAP (25 November 2025)

The RAP concluded:

The remediation options analysis and discussions with HINSW identified the following two preferred remedial options:

- Onsite encapsulation of asbestos impacted soils within a containment cell and development and implementation of associated Long-term Environmental Management Plan, and
- Excavation and offsite disposal of non-asbestos impacted contaminated materials.

Subject to successful validation, restrictions would only apply to future ground engaging activities whereby depths of penetration could extend close to or below the capping layer (within the Containment Area). This assumes remediation is undertaken as per this report, and the contamination sources and extents are as per the current Conceptual Site Model.

## 4 Final Statement

SMEC considers that the Site can be made suitable for the proposed activity, as a new Hospital, subject to implementation of the remediation measures detailed within the RAP which is subject to a separate development application.

Yours sincerely,

Bob Campbell
Principal Scientist - Contaminated Land

Phone: 02 9925 5555
Email: Bob.Campbell@smec.com

**List of Attachments**

- Attachment 1: SMEC (21 March 2025), Detailed Site Investigation, Bankstown New Hospital
- Attachment 2: SMEC (25 November 2025) Remedial Action Plan (Rev 4), Bankstown New Hospital – 490 Chapel Road, Bankstown

**Attachment 1:** SMEC (21 March 2025), Detailed Site Investigation, Bankstown New Hospital

Detailed Site Investigation

# Bankstown New Hospital

Prepared for: Health Infrastructure NSW
21 March 2025
Client Reference No. HI24318

SMEC INTERNAL REF. 30013640

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## Document Control

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## Important Notice

This report is confidential and is provided solely for the purposes of providing a Detailed Site Investigation (with respect to contamination) at the Bankstown TAFE, 500 Chapel Road, Bankstown NSW 2200. This report is provided pursuant to a Consultancy Agreement between SMEC Australia Pty Limited ("SMEC") and Health Infrastructure NSW, under which SMEC undertook to perform a specific and limited task for Health Infrastructure NSW. This report is strictly limited to the matters stated in it and subject to the various assumptions, qualifications and limitations in it and does not apply by implication to other matters. SMEC makes no representation that the scope, assumptions, qualifications and exclusions set out in this report were suitable or sufficient for other purposes nor that the content of the report covers all matters which you may regard as material for your purposes.

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This report has relied on information provided by HINSW and presented in previous reports. We have therefore relied that the information contained in those reports is a true and accurate reflection of the Site conditions and that the conclusions made in those reports are reasonable and made on a sound scientific basis. It was not within the scope to validate the results of the previous reports. Each report has its own set of limitations, and those limitations also apply to the interpretations made by SMEC. SMEC do not take responsibility for errors, omissions or negligence in the use of the information contained in previous reports made available for this report.

The findings of this this report are the result of methodologies used in accordance with normal practices and standards. We consider that they represent a reasonable interpretation of the general conditions of the Site at the time they were assessed, but under no circumstances, can it be considered that these findings represent the actual state of the Site in all areas. This report applies to the Site at the point in time it was observed and/or tested and does not apply if changes to the Site are made post that time.

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# Abbreviations and Acronyms

Table A1 Abbreviations and acronyms.

| Abbreviation / Acronym | Description |
|---|---|
| ABC | Ambient Background Concentrations |
| ACM | Asbestos Containing Material |
| AEI | Area of Environmental Interest |
| AF/FA | Asbestos Fines/Friable asbestos |
| AHD | Australian Height Datum |
| ASS | Acid Sulfate Soils |
| BaP | Benzo(a)pyrene |
| BTEX | Benzene, Toluene, Ethylbenzene, Xylene |
| CEC | Cation Exchange Capacity |
| CLM | Contaminated Land Management |
| CoC | Chain of Custody |
| CoPC | Contaminants of Potential Concern |
| CSM | Conceptual Site Model |
| DO | Dissolved Oxygen |
| DQI | Data Quality Indicators |
| DSI | Detailed Site Investigation |
| DQO | Data Quality Objective |
| EC | Electrical Conductivity |
| EIL | Ecological Investigation Levels |
| EPA | Environment Protection Authority |
| ESL | Ecological Screening Levels |
| ha | Hectares |
| HIL | Health-based Investigation Levels |
| HSL | Health-based Screening Levels |
| LCS | Laboratory Control Samples |
| LD | Laboratory Duplicate |
| LNAPL | Light Non-Aqueous Phase Liquid |
| LOR | Limit of Reporting |
| LPS | Laboratory Prepared Spikes |
| MAH | Monocyclic Aromatic Hydrocarbons |
| m bgl | Metres Below Ground Level |

| Abbreviation / Acronym | Description |
|---|---|
| MS | Matrix Spike |
| NEMP | National Environment Management Plan |
| NEPC | National Environment Protection Council |
| NEPM | National Environment Protection Measure |
| OCP | Organochlorinated Pesticide |
| OPP | Organophosphorus Pesticide |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PCB | Polychlorinated Biphenyls |
| PFAS | Per- and Poly-Fluoroalkyl Substances |
| PFOS | Perfluorooctane Sulfonic Acid |
| PID | Photo-Ionisation Detector |
| 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 |
| SOP | Standard Operating Procedure |
| S-P-R | Source-Pathway-Receptor |
| SRA | Sample Receipt Advice |
| SWL | Standing Water Level |
| SWMS | Safe Work Method Statements |
| TOC | Total Organic Carbon |
| TPH | Total Petroleum Hydrocarbons |
| TRH | Total Recoverable Hydrocarbon |
| USCS | Unified Soil Classification System |
| VENM | Virgin Excavated Natural Material |
| VOC | Volatile Organic Compounds |

# Executive Summary

SMEC Australia Pty Ltd (SMEC) has been engaged by Health Infrastructure NSW (HINSW) to provide a Detailed Site Investigation (DSI) reports for the proposed new Bankstown Hospital at Bankstown TAFE site, 500 Chapel Road, Bankstown, NSW 2200 (the Site) as part of investigations to inform the proposed development. This report presents the findings of the DSI. Previous contamination assessments have been carried out at the Site which identified a range of potential contamination sources indicating the requirement for further investigations.

The new hospital development is currently at a concept design stage and will include contemporary purpose-built facilities for emergency health care and community health services. At the time of writing of this report, SMEC understands that the design of the new hospital is at a concept options level with several possible site layouts under consideration. Basement levels are not proposed, but some cut into the natural sloping ground is likely for multi storey buildings.

The purpose of this investigation was to provide HINSW with additional advice on the contamination status of the Site.

The objectives of the DSI were to:

- Assess the potential for contamination to be present at the Site from past or present activities through intrusive investigations.
- Assess if contamination potentially poses a risk to human health or the environment.
- Provide recommendations on the need for further investigations and/or management based on the findings.

The scope of work completed included a desktop review, site walkover, sampling of soils and groundwater at targeted location, laboratory analysis and preparing this report.

Review of historical information from previous reports indicated that the southern portion of the Site was used for residential housing, with the central and northern areas remaining vacant until circa 1956, when buildings associated with a TAFE facility were constructed. Residential dwellings were progressively demolished for TAFE expansion including the TAFE car park in the south. A TAFE building in the central part of the Site was also demolished sometime between 1994 and 2002. The Site has and continues to operate as a TAFE for educational purposes. A flammable liquids store is located in the central part of the Site with historical information suggesting a 500L underground fuel tank is present in this area, which may still be in situ.

Based on Site history and observations, five potential AEIs and associated potentially contaminating sources were identified, including the following:

- AEI1 – The whole Site from potential fill of unknown origin and quality.
- AEI2 – Areas near former structures from weathering and/or ineffective demolition of hazardous building materials
- AEI3 – Transformer from potential use of oils (including oils with PCBs)
- AEI4 – Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator
- AEI5 – Whole of Site from the offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams).

## Findings

- Ground conditions
  - Fill was observed at all sampling locations comprising of varied mixtures of clay, gravel, silt, sand, cobbles, with anthropogenic material observed at 9 locations, ash inclusions observed at 4 locations. Fill depth varied across the Site due to the cut and fill nature, with a maximum depth of 1.8m below ground level in the central portion of the Site.
  - A trace of anthropogenic inclusions were recorded within the fill. Under the proposed development scenario, the amount of anthropogenic material is considered unlikely to pose an aesthetic issue, but if on Site reuse is proposed use of materials with these anthropogenic inclusions should be avoided at the surface of landscaped areas.
  - The fill was underlain by residual clayey soils and weathered shale.
- Soil contamination exceeding the adopted assessment criteria has been recorded as follows:
  - Health criteria:
    - Asbestos in both bonded and friable/fines forms at three locations (2 SMEC locations and 1 previous JBS&G location) exceeding recreational and/or commercial/industrial criteria
    - Lead exceedances at two locations exceeding recreational health criteria. The 95% upper confidence limit for lead for the Site as a whole was below the criteria.
  - Ecological criteria: Exceedances were recorded at two locations for arsenic and/or benzo(a)pyrene. Statistical assessment showed that these exceedances were not significant in the context of the proposed development.
- Some exceedances of the adopted ecological criteria were recorded in groundwater for some metals and Per- and Poly-Fluoroalkyl Substances (PFAS) (at one location). In general the concentrations were considered to be low and unlikely to affect the proposed development except if dewatering is going to be a requirement for excavations then this would need to be considered in terms of disposal.
- A preliminary assessment of Waste Classification was undertaken using the data from this DSI. In summary the results concluded that soils which are found to contain asbestos would classify as special waste and be General Solid Waste (to be managed as asbestos). Soils comprising fill or disturbed ground and not containing asbestos appear to be able to be classified as General Solid Waste (non-putrescible) from the areas tested. Other advice on waste classification is included in Section 9.2.3 of the report.
- Due to the identification of contamination at the Site, remediation and/or management is required to make the Site suitable for the proposed development. We consider that the contamination can be managed through common remediation techniques and careful soil segregation, and therefore likely to be able to be made suitable for the proposed development subject to the recommendations below.
- 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.

## Recommendations

Based on the findings of this DSI and with respect to a proposed hospital development, SMEC recommend that a Remedial Action Plan (RAP) be prepared to document the contamination remediation and management requirements (determined through risk-based assessments, considering proposed development types, layouts, type of structures, site controls, receptors and potential site specific exposure). In some cases, the development may be adjusted to optimise environmental, sustainability, cost and compliance outcomes. Items which the RAP should cover include (but not limited to):

- Removal of all hazardous building materials from structures (and below ground services) that require demolition in accordance with relevant regulations and codes along with adequate assessment and clearance prior to demolition to avid the introduction of contamination to the ground.
- Further assessment of areas below building footprints that were not accessible at the time of this investigation following demolition.

- Further assessment/validation following removal of the transformer.
- Remediation and validation of known areas of contamination if any fill soils that have been assessed as being impacted are proposed to be reused or left on Site.
- Removal/abandonment of the underground storage tank and pipework including validation. The method will depend on development details and to comply with relevant guidance.
- Excavation and material segregation requirements (including stockpiling, waste classification and disposal/reuse protocols) and protocols aiming at minimising unintended mixing of different material types to enable reuse in specific areas of the Site or to manage offsite disposal classifications. This will have emphasis on careful excavation and management of soils in areas of former structures (southern and central part of the Site) with a method for segregation and validation to reduce potential for bulk cross contamination.
- Management of groundwater for disposal if this is required as part of construction.
- An unexpected finds protocol to manage contamination if it were uncovered during redevelopment of the Site. If contamination is identified during construction, then it should be adequately remediated or managed in a way that makes the Site suitable for the proposed development, including relevant validation and reporting.

# 1. Introduction

## 1.1 General

SMEC Australia Pty Ltd (SMEC) has been engaged by Health Infrastructure NSW (HINSW) to provide a Detailed Site Investigation (DSI) reports for the proposed new Bankstown Hospital at Bankstown TAFE site, 500 Chapel Road, Bankstown, NSW 2200 (the Site) as part of investigations to inform the proposed development. This report presents the findings of the DSI.

Previous contamination assessments have been carried out at the Site which identified a range of potential contamination sources indicating the requirement for further investigations.

The location and layout of the Site is presented in Figure 1, Appendix A. SMEC prepared a Desktop Study Report and a Sampling Plan for the project and relevant sections of these documents have been reproduced in this report.

The work was carried out concurrently with a SMEC geotechnical investigation and geotechnical investigation is reported separately.

## 1.2 Proposed Development

SMEC understands that HINSW has engaged Capital Insight as their project manager for this project. The new hospital development is currently at a concept design stage and will include contemporary purpose-built facilities for emergency health care and community health services.

At the time of writing of this report, SMEC understands that the design of the new hospital is at a concept options level with several possible site layouts under consideration. Basement levels are not proposed, but some cut into the natural sloping ground is likely for multi storey buildings.

## 1.3 Purpose and Objectives

The purpose of this investigation was to provide HINSW with additional advice on the contamination status of the Site.

The objectives of the DSI were to:

- Assess the potential for contamination to be present at the Site from past or present activities through intrusive investigations.
- Assess if contamination potentially poses a risk to human health or the environment.
- Provide recommendations on the need for further investigations and/or management based on the findings.

## 1.4 Scope of Report

The scope of work completed included:

- A desktop review of previous reports and public information.
- Site walkover by an Environmental Scientist to assess conditions of the Site and surrounds, and potential contamination source/activities.
- Developing a conceptual site model (CSM) and sampling plan.
- Sampling of soils and groundwater at targeted locations across the Site.
- Laboratory testing of soil samples at a NATA accredited laboratory for identified contaminants of potential concern to supplement previous data.

- 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 Regulatory Framework

## 1.5.1 Published Guidelines

The following regulatory framework and key guidelines were considered for this report:

- Australian and New Zealand Governments (2018). Australian and New Zealand guidelines for fresh and marine water quality
- NEPC, National Environment Protection (Assessment of site contamination) Measure 1999
- NSW EPA (2015), Guidelines on Duty to Report Contamination under the CLM Act 1997
- NSW EPA (2017) Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd ed)
- NSW EPA (2020), Contaminated land guidelines: Consultants reporting on contaminated land
- NSW EPA (2022), Sampling design part 1 - application
- PFAS NEMP (2020), PFAS National Environmental Management Plan 2.0
- State Environmental Planning Policy (Resilience and Hazards) 2021.

Additional references are included in Section 12.

## 1.5.2 Definition of Contaminated Land

The NSW Contaminated Land Management Act 1997 defines contamination of land as “the presence in, on or under the land of a substance at a concentration above the concentration at which the substance is normally present in, on or under (respectively) land in the same locality, being a presence that presents a risk of harm to human health or any other aspect of the environment.”

# 2. Site Identification

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

Table 1 Summary of Site information.

| | |
|---|---|
| Address | Bankstown TAFE, 490 Chapel Road, Bankstown NSW 2200 |
| Title Identifiers | Lot 1 DP853675,Lot 10 DP6880 and Raw Avenue |
| Area | Approximately 3.9 ha |
| Coordinates (approx.. centre of Site) | Easting: 318301.225<br>Northing: 6245963.037 |
| Local Government Area | Bankstown City Local Government Area (LGA) |
| Zoning | The Site comprised of land zonings under Bankstown Local Environmental Plan (LEP) 2023 as follows:<br>• SP2 Infrastructure (northern/central portion)<br>• B4 Mixed Use (south eastern portion) |
| Owner | TAFE NSW (assumed) |
| Occupier | TAFE NSW Bankstown Campus |
| Current Land Use | Tertiary Education Facility |
| Proposed Land Use | Hospital and ancillary facilities for health care. |
| Surrounding Land use | The surrounding land uses at the time of the visit are summarised below:<br>North: La Salle Catholic College boarders the Site. St Felix Catholic Primary School, Church (St Felix de Valois Parish), low and high density residential properties and Hume Highway are all located further to the north.<br>East: Chapel Road followed mainly by high density residential properties, a non-profit organisation (Islamic Charity Projects Assoc Inc) and several restaurants and food stores.<br>South: French Avenue and commercial properties (shopping mall – Little Saigon Plaza, Aldi, Unity Bank) and associated car parks.<br>West: Sport fields associated with La Salle Catholic College. High density residential properties and Meredith Street are located further west. |

# 3. Site History

## 3.1 General

Site history information has been presented in previous reports prepared for the Site. HINSW provided copies of two previous reports by JBS&G prepared for HINSW as follows:

- JBS&G - Due Diligence Contamination Assessment, Site 16A Bankstown TAFE (2021a)
- JBS&G - DRAFT – Memorandum – Intrusive Due Diligence Works Progress Update, Site 16 Bankstown TAFE (2021b)

SMEC sourced the following additional report from an online search[1]:

- Douglas Partners - Preliminary Site Investigation (Contamination) - 490 Chapel Rd & 347A Hume Highway, Bankstown (Prepared for Bankstown City Council)

A summary of site history information as sourced from the above reports is provided in Table 2 below.

Table 2: Site History Information from Previous Reports

| Item | Summary |
|---|---|
| Aerial photographs | A review of historical aerial photographs dating between 1943 and 2020 indicates:<br>• The Site appears to have been used for low-density residential housing in the southern portion, while the central and northern portions remained vacant (grass and some trees) since at least 1943 (earliest photo).<br>• By 1956, buildings associated with what is inferred to be the TAFE facility had been constructed in the central portion, with further expansion into the northern area by 1961.<br>• Between 1975 and 1994, the residential properties in the south-eastern portion were demolished to make way for the TAFE carpark.<br>• A TAFE structure in the central part of the Site was demolished between about 1994 and 2002.<br>• Nearby land surrounding the Site appears to have been mostly residential, with housing density changing from what initially appears lower density to higher density residential |
| Title Records | A review of the historical land titles for Lot 1 in DP583675 indicates that the previously subdivided land parcels were predominantly owned by an individual (presumably residential) landowners from the early 1900s until the 1970s–1980s, when the parcels were acquired by the Minister of Public Instruction, now known as TAFE. |

[1] https://apps.planningportal.nsw.gov.au/prweb/PRRestService/DocMgmt/v1/PublicDocuments/DATA-WORKATTACH-FILE%20PEC-DPE-EP-WORK%20PP-2022-1153!20220331T071512.397%20GMT

| Item | Summary |
|---|---|
| SafeWork NSW records for Schedule 11 hazardous chemicals | A search of SafeWork NSW records for Schedule 11 hazardous chemicals was included as an appendix to a report sourced publicly online (Douglas Partners, 2022). The search results (dated from 2021) did not locate any records for the premises as per the search address of 490 Chapel Rd and 347A Hume Highway, Bankstown NSW 2200. An older search dated 2018 contained in a sub-appendix to the report sourced from a Council search recorded dangerous goods in the form of pressurised gas (such as oxygen, acetylene, argon, migshield (gas) and LPG). The search also made reference to relatively small quantities (various containers of 10-40 litres) in cabinets of liquids such as turpentine, kerosene, paints, paint thinners, paint strippers, wax and grease removers, acids, methylated spirits, rust remover. A 500-litre underground tank for mineral spirit (MS petrol) is also identified. A plan showing approximate locations in shown in Figure 3-1. A copy of a drawing (only partly legible) makes reference to an incinerator room, underground oil sump and an outline of the tank. Based on the drawing and observations made of the Site during a Site visit, the location is in the central part of the Site and shown in Figure 3-2 below. |
| EPA Records | No prevention, clean-up or prohibitions notices had been issued under the Protection of the Environment Operations Act (POEO Act) for the Site and immediate surroundings. Environment protection licences were not identified within proximity to the Site. No notices have been issued under the CLM Act for the Site and immediate surroundings. |
| Section 10.7 Planning Certificate | The 10.7 Planning certificate (dated 3 November 2021) was obtained by Douglas Partners as part of the PSI. As per the details on the certificate, the Site was not listed or known to be affected by items that relate to contamination (under the Contaminated Land Management Act 1997), mine subsidence, loose fill asbestos insulation, heritage, biodiversity stewardship/certified, bushfire, acid sulfate soils, land slip.<br>The Site is listed with the following relevant constraints:<br>• Flood - The land or part of the land is within the flood planning area and is subject to flood related development controls |
| Heritage Searches | A search of the Australian National Heritage and NSW Heritage databases was undertaken, and did not identify any records within the immediate vicinity of the Site (JBS&G, 2021a). |
| PFAS Register | The NSW EPA is currently investigating the use of PFAS across various sites in New South Wales. A search of the EPA's public PFAS register revealed no records related to the Site or its immediate surroundings. The nearest sites under investigation by the NSW EPA are Greenacre Fire and Rescue, located approximately 3.2 km northeast of the Site, and Bankstown Airport, about 3.8 km southwest. Given the distance of these properties from the Site and the low likelihood of groundwater or surface water potentially containing PFAS migrating to the Site, the potential PFAS impacts from these properties are considered unlikely to pose a risk to the Site (JBS&G, 2021a). |

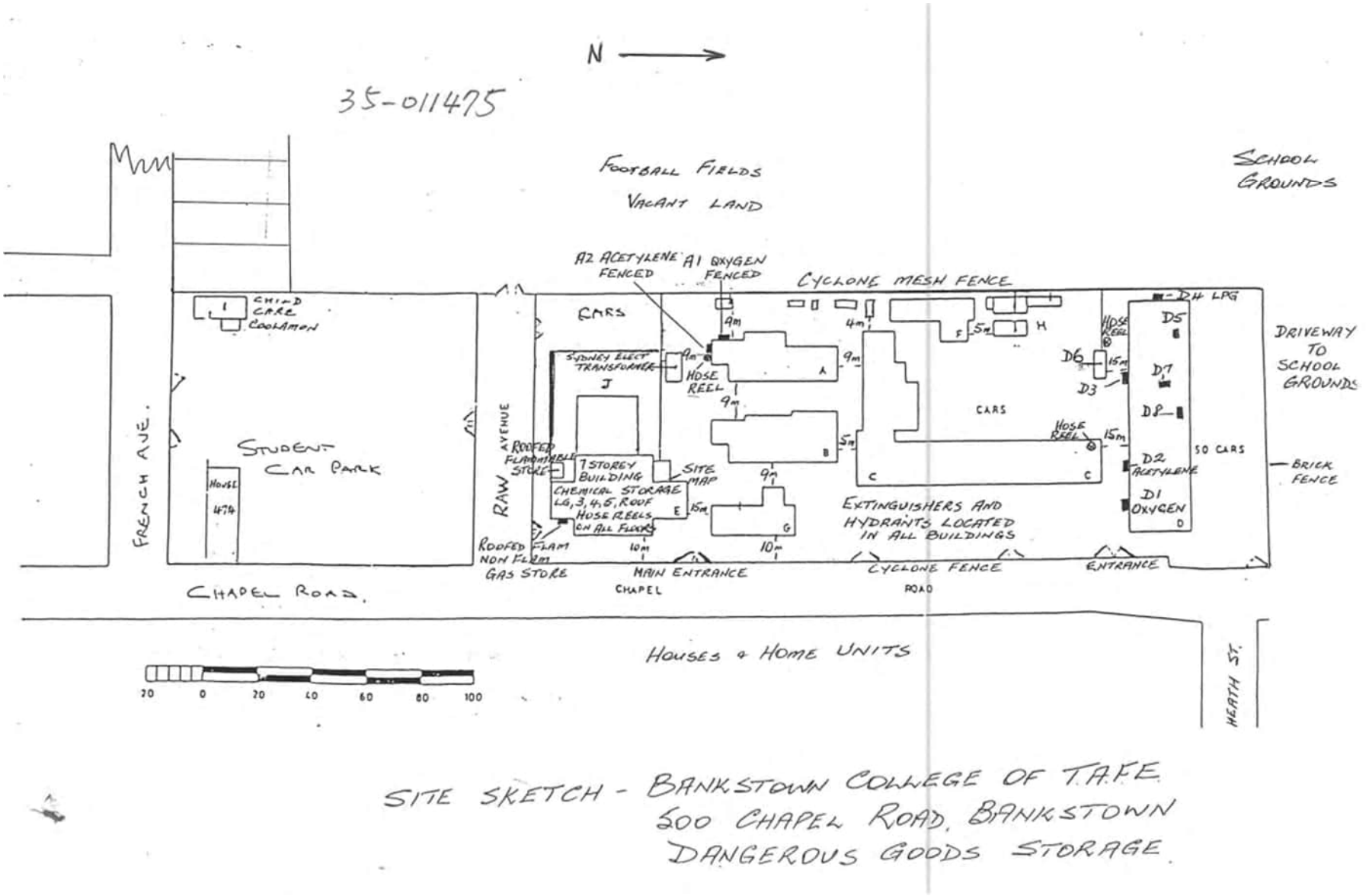


Figure 3-1: Extract from 2018 SafeWork NSW Search (Douglas Partners, 2002)

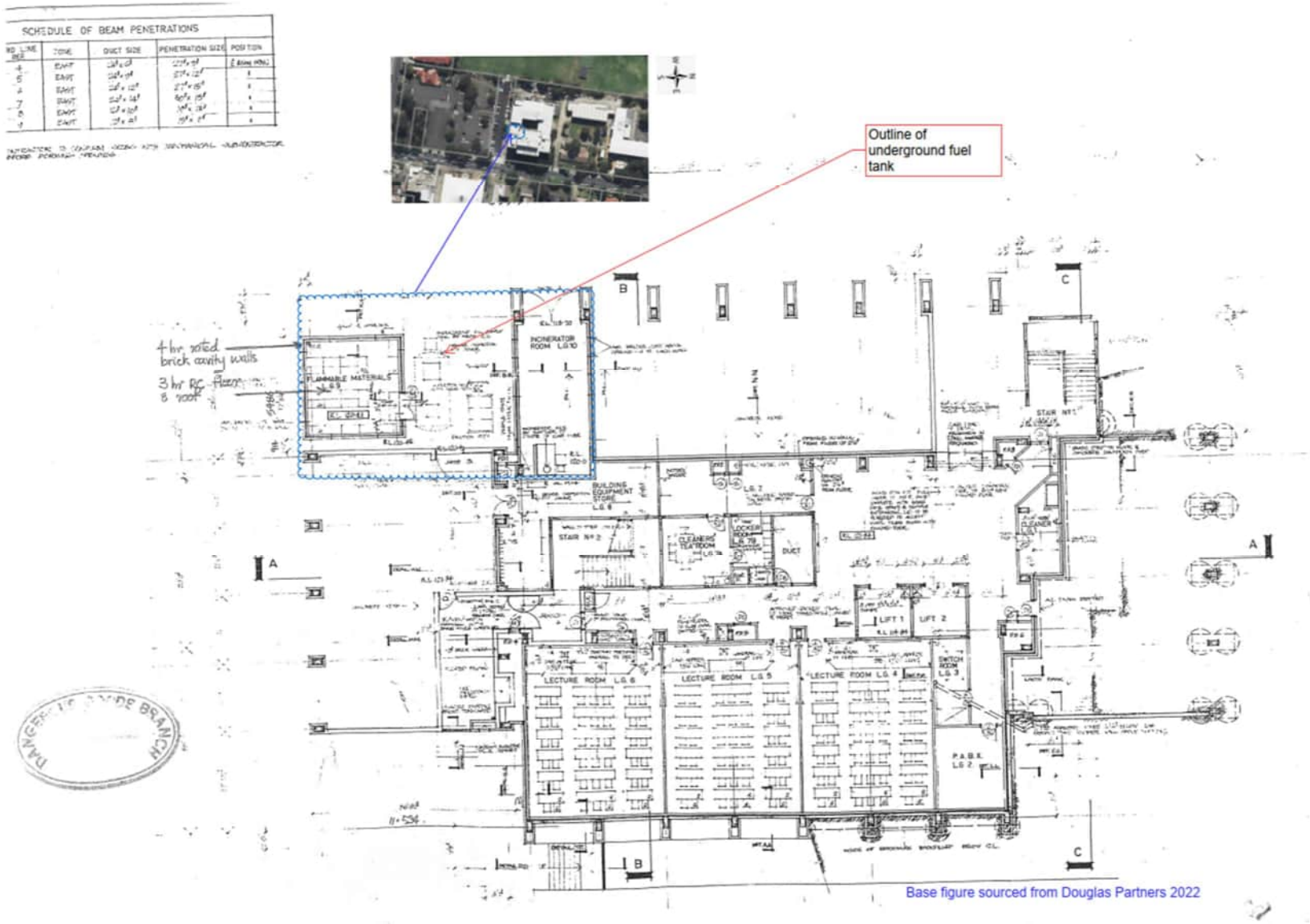


Figure 3-2 Extract from 2018 SafeWork NSW Search – Flammable Store (Douglas Partners, 2002)

## 3.2 NSW EPA Records

SMEC carried out a review of NSW EPA records via the NSW EPA website (www.epa.nsw.gov.au) (accessed on 21 November 2024). The results are summarised in Table 3.

Table 3 Summary of NSW EPA records.

| Record | Summary |
|---|---|
| Contaminated Land Record of Notices | The results indicated there were no regulatory notices for the Site, or any properties within a 500m radius of the Site. |
| NSW Contaminated Sites Notified to the EPA | Based on the search conducted, the Site or properties within a 500m radius of the Site were not listed as Contaminated Site Notified to the EPA. |
| Licenced Activities under the POEO Act 1997 | A search of the NSW EPA Protection of the Environment Operations (POEO) registers was carried out through the NSW EPA website. No licensed activities were recorded within 500m of the Site. |

## 3.3 Anecdotal Information

During the Site visit on 18 November 2024 a discussion was held with two current TAFE employees (a current hairdressing teacher and the Facilities Coordinator). Relevant information provided included:

- The only practical subjects taught within the TAFE is hairdressing, with no welding or mechanical trades. Iqbal advised bricklaying was previously offered in Building D, however, it is unknown when this switched over to hairdressing.
- Multiple utilities exist within the Site including an Energy Australia transformer in the centre of the Site and a back-up generator in the south-eastern portion of the Site.
- Fuel storage is located near the back-up generator in the south-eastern portion of the Site, this is stored in the correct way with no spills observed.
- The current delivery dock was previously used for storing maintenance equipment; however, the specific machines that were stored are unknown. The site is maintained by contractors, and no maintenance equipment is stored onsite.
- The chemicals stored in the hairdressing department were shown to SMEC. Relatively minor quantities of bleach, dyes, acetone, acids, turpentine, kerosene, various paints, paint thinners and strippers, wax and grease removers, were noted, professionally stored within cabinets with no spills present.
- Disposal of dyes and bleaches not used is via a private company ‘Sustainable Salons’. Dedicated bins are provided to each classroom and are collected monthly and taken offsite.

## 3.4 Previous Reports

SMEC undertook a review of previous reports with key findings presented in Table 4. Historic investigation locations are presented in Figure 3-3.

Table 4 Summary of findings from review of previous Site reports.

| Report Reference | Summary |
|---|---|
| JBS&G - Due Diligence Contamination Assessment, Site 16A Bankstown TAFE (2021a) | A Due Diligence contamination assessment (DDCA)was undertaken by JBS&G (2020a) for HINSW. The stated objective of the DDCA was to 'identify the primary contamination issues and risks at the site with respect to the proposed acquisition and hospital redevelopment'. The scope involved a desk based review of information and a site visit from only publicly accessible areas. The area investigated included the current Site and further areas to the south-west. Relevant historical information was presented earlier in Section 3.1<br>The report noted the following relevant to the Site currently being assessed:<br>• Potential sources of contamination were identified, including:<br>– Demolition of previous structures/properties (due to asbestos and lead paint)<br>– Fill materials to create existing site levels (based on demolition of previous structures, age of potential filling and unknown sources of fill material). ,<br>• A review of a Hazardous Material Risk Assessment (by Greencap 2018) indicated the presence of bonded asbestos and lead paint in a number of buildings.<br>• Contamination associated with fill materials and hazardous substances was expected to be amenable to remediation or management using common standard industry practices, which can be completed concurrently with redevelopment activities.<br>• Opportunities may exist to manage impacted materials on-site through a cap-and-contain approach, potentially reducing landfill disposal costs.<br>• Existing buildings on-site contain significant hazardous materials, including asbestos-containing materials (ACM), due to their construction age. The removal of such materials, particularly from structural components of large-scale buildings, will have implications for both time and cost.<br>• The potential contamination issues are unlikely to impede the redevelopment of the site for the proposed hospital use, provided appropriate remediation is undertaken.<br>• A detailed site investigation and Hazardous Building Materials Survey were recommended as part of the report. |

| Report Reference | Summary |
|---|---|
| JBS&G – Draft Memorandum - Intrusive Due Diligence Works Progress Update, Site 16 Bankstown TAFE (2021b) | JBS&G (2020b) undertook an intrusive due diligence contamination assessment (DDCA) of Bankstown TAFE, 490 Chapel Road, Bankstown NSW for HINSW. The investigation included soil sampling from 23 locations, see Figure 3-3 below for test locations. The reporting was limited to a 2 page draft memorandum including a cover letter with attachments and did not include full details of the works or quality assurance/quality control, therefore data can only be regarded as preliminary.<br>In summary the report indicated the following:<br>• The presence of shallow fill materials between 0.3m and 0.8 m in depth<br>• The presence of 'typical western Sydney contaminants to a limited extent including heavy metals and asbestos'<br>• Asbestos was reported by the laboratory in 2 of 23 locations<br>• Various portions of the site appear to be suitable for a containment cell based on the shallow depth of fill.<br>• Most of the site was paved and further assessment was recommended via test pitting to further assess asbestos impact<br>• Groundwater was not directly assessed. Based on the site history and distance of upgradient potential contamination sources, groundwater was considered unlikely to pose a risk to on-site or off-site receptors and therefore no assessment was warranted at the current stage of intrusive investigations.<br>SMEC noted the following from a review of the data contained in the report:<br>• The report compared results to health investigation levels (HIL A) for residential with garden/accessible soil, management limits (residential/parkland) and Ecological Investigation and Screening Levels (EILs and ESLs) for urban residential/open space. The following exceedances were highlighted in the summary tables:<br>– A lead concentration of 1,500mg/kg at SS23/0.4m in the main carpark exceeding health criteria<br>– Chromium (total) concentrations between 230-290mg/kg highlighted in borehole S03 and S04, adjacent to the northern staff carpark. SMEC note that the criteria used was for Chromium VI which may be conservative in the absence of a source.<br>– Asbestos was reported by the laboratory in S11 in the form of bonded ACM above the adopted health criteria<br>– Multiple heavy metals (chromium, copper, lead, nickel, and zinc) exceeded the adopted generic Ecological Investigation Levels (EILs) for Urban Residential and Public Open Space, in all boreholes except S09, S11, S20 and S21<br>– An exceedance of the adopted Ecological Screening Level (ESL) for Urban Residential for benzo(a)pyrene was noted in QS01A, inter-laboratory duplicate for S09-0-0.3.<br>A copy of the summary tables from the JBS&G report are included in Appendix B. |

| Report Reference | Summary |
|---|---|
| Douglas Partners - Preliminary Site Investigation (Contamination) - 490 Chapel Rd & 347A Hume Highway, Bankstown (2022) | Douglas Partners undertook a Preliminary Site Investigation (PSI) at the 490 Chapel Rd & 347A Hume Highway, Bankstown (this was an extended Site which included 490 Chapel Road, Bankstown (the current Site) and La Selle College School Facilities and Playing Fields to the north and west). The Site walkover was not completed through the internal areas of the Site, only to the public carpark, sampling was also not undertaken. Relevant historical information was presented earlier in Section 3.1.<br>The following findings were noted:<br>• The PSI identified five (5) potential sources of contamination and rated using a risk rating developed by Douglas Partners summarised as follows:<br>– S1 - Fill: Associated with levelling, demolition of former buildings on the site and backfilling (Low Risk)<br>– S2 - Former buildings and structures on the site (Low Risk)<br>– S3 - Chemical storage at the TAFE (Medium-High Risk)<br>– S4 - Current use as a car park (Low Risk)<br>– S5 - Offsite source: Bankstown Fire Station to the north (Medium-High Risk)<br>• Douglas Partners have an internal risk rating matrix that assesses the probability and consequence, this site was assessed to have a rating of 10 corresponding to a medium risk.<br>The report concluded, based on the results of the PSI, it was considered that the site can be made suitable for the proposed SP2 Infrastructure (Educational Establishment and Health Services Facilities) zoning subject to implementation of the recommended intrusive DSI of soils and groundwater. |

Figure 3-3: JBS&G Intrusive Due Diligance Investigation sample locations (JBS&G 2021)

# 4. Site Condition and Surrounding Environment

## 4.1 Site Observations

A SMEC environmental scientist made observations of accessible parts of the Site on 18 November 2024. A summary of relevant observations is presented in Table 5.

Selected photographs of the Site taken during the Site visit are presented in Appendix C, and pertinent features are presented on Figure 4-1 below.

Table 5 Summary of relevant Site observations.

| Area | Description |
|---|---|
| General Site | The Site is presently utilised as a TAFE campus with seven (7) main buildings, multiple small carparks and a larger carpark in the southern portion of the Site. The TAFE predominately focusses on English, child education, business, accounting and finance, animal care and hairdressing studies. The Site features a pronounced slope descending towards the south, with several retaining walls.<br>At the time of the visit, no unusual staining or surface evidence of asbestos containing materials were observed. Access to buildings was generally restricted except where stated.<br>The Site is mostly demarcated with fencing and gates which generally correspond to the boundary. |
| Northern carpark and Building D | The northern car park, accessible via Gate 3, is paved with asphalt and slopes towards the western portion. A small garden is located along the eastern boundary of this area. A retaining wall (approx. 3m in height) separates the car park from Building D, which is a two-story brick veneer structure housing programs for hairdressing, beauty therapy, and childcare students. |
| Building C and Surroundings | South of Building D, another car park, accessible via Gate 2, is paved with concrete and bordered by accessible soil between the car park and Building D. This car park is separated from Building C by a retaining wall (approx. 2.5m in height). Building C, a 2-to-3-story building, houses community services, aged care, corporate strategy functions, and the canteen.<br>East of Building C lies a large, landscaped garden with grassed seating areas, accessible via a small staircase (approx. 1.5m) from Gate 2. To the west of Building D is another car park connected to the upper car park via a ramp. This area is paved with asphalt, and a large grassed seating area is located further west. A retaining wall (approx. 2m) separates this section from the southern end of Building C. In the northwest section of this car park, a small brick structure houses the site's water meter, and four medium-sized water tanks are located along the verge of Building C. |
| Buildings E and J and Surroundings | The southernmost buildings on the Site are Buildings E and J, both six-story brick veneer structures housing the library, accounting, finance, and student learning support services. A small courtyard with accessible soil is located centrally within these buildings. East of these buildings, a set of stairs descends to the main car park, which combines concrete and asphalt paving. Retained vegetation slopes approximately 2 meters within this area, and a small garden with exposed soil is situated nearby. |
| Childcare Centre (Building L) | The childcare centre (Building L) is located in the southwest corner of the Site. However, access was not granted for inspection during this visit. |

| Area | Description |
|---|---|
| Southern Carpark | The southern portion of the Site features a large asphalt-paved car park with small gardens. |
| Operational Chemicals and Fuel Storage | During observations of Building D, conducted with a TAFE representative from the beauty services department indicated storage of chemicals, including bleaches, hair dyes, nail polish, and acetone in flammable goods storage cabinets.<br>Fuel and Liquid Petroleum Gas (LPG) storage was situated in the southeast corner of the Site. TAFE maintenance and facility staff advised this was used for forklifts and that no spills incidents are known to have occurred. |
| Flammable liquids store and Underground Storage Tank | Access was not provided during our assessment; however, historical records indicated a 500L underground fuel storage tank in the bottom floor of Building E. Onsite staff sent photos post the SMEC Site visit which showed a fuel vent pipe in the vicinity suggesting the tank may still be in-situ. Photos also showed 4 x 9kg LPG gas bottles, a plastic jerry can and three plastic containers (one hand labelled '$H_2O$'). The photos provided are included in Appendix C. |
| Utility Infrastructure | A transformer, owned by Energy Australia, was located at the northern end of Building J, but access was not provided during the visit. A backup generator was situated in the southeast corner of Building E. |
| Access | • Gate 3 provides access to the northern car park.<br>• Gate 2 serves the southern car park and landscaped garden east of Building C.<br>• Gate 1 provides access to central courtyard north of Buildings J and E<br>• A car ramp connects the western car park to the upper car park near Building D.<br>• A staircase provides access to the grassed garden and seating area east of Building C, as well as to the main car park south of Buildings B and J. |
| Retaining Walls | • Several retaining walls were observed as described above. |

Figure 4-1: Observations made during site walkover

## 4.2 Site Environmental Setting

A summary of the Site environmental setting is presented in Table 6.

Table 6 Summary of Site environmental setting.

| Aspect | Detail |
|---|---|
| Topography and Landforms | The Site slopes down in a north to south direction, with surface elevations ranging from approximately 60m Australian Height Datum (AHD) in the north to 31m AHD in the south. The Site is partially tiered with approximately three (3) 1.5-3m retaining walls across the Site. |
| Vegetation | The TAFE is predominantly developed, featuring a mix of grassed areas, shrubs, and mature trees distributed throughout the Site. Along the eastern boundary, there was a substantial garden characterised by large gum trees and grassed seating areas. In the north-western portion, a designated grassed seating area is present, separated from the northern car park by a dense vegetative buffer. A small communal grassed area, within the central portion, is accompanied by adjacent large gum trees. Elsewhere on the Site, vegetation is scattered gum trees and small shrubs, particularly along the western boundary and within the southern car park area. |
| Geology | Reference to the Seamless Surface Geology (https://minview.geoscience.nsw.gov.au/, on 22 November 2024) indicates that the Site is mapped the Site is mapped as being underlain predominantly by Bringelly Shale (Twib) geological unit of Wianamatta Group (Twi). Bringelly Shale is described as light to mid-grey claystone to dark grey-black carbonaceous claystone. The south-east corner of the Site is mapped to be underlain by the Michinbury Sandstone (Twim) geological unit of varying thickness comprising fine to medium lithic sandstone. Michinbury Sandstone unit (Twim) forms a geological contact between Ashfield Shale (Twia) geological unit and Bringelly Shale (Twib) geological unit. Ashfield Shale (Twia) geological unit found adjacent to the Site further south described as black to light grey claystone-siltstone, laminated fine-grained sandstone and siltstone. |
| Soils | Reference to the 1:100 000 Sydney Region Geological Map from NSW Department of Industry, Soils Landscape Sheet indicates that the Site is mapped as being underlain by the Glenorie erosional soils and Blacktown residual soils, as the Site is located on an interface between the two groups. The Glenorie soils group comprises shallow to moderately deep red podzolic soils on crests, red and brown podzolic soils on upper slopes, deep yellow podzolic soils on lower slopes and humic clays, yellow podzolic soils and gleyed podzolic soils along drainage lines. The Blacktown soils group comprises shallow to moderately deep red and brown podzolic soils crests, upper slopes and well drained areas, deep yellow podzolic soils and soloths on lower slopes and in areas of poor drainage.<br>The following was noted from the borehole logs presented in the JBS&G 2020b report:<br>• Boreholes were drilled to a maximum depth of 1.2m<br>• Pavement (asphalt/concrete) and Fill materials were encountered between 0.3m to 0.8m below ground surface. The fill was generally described as<br>– Road base, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose in sample locations within carparks or pathways.<br>– Sandy silt, light brown, heterogeneous inclusions, fine sand, very loose, trace gravels in sample locations within grassed or garden areas.<br>– Ash/slag was described as being encountered in boreholes S1, S2, S11 and S13<br>– Tile, concrete and/or brick was encountered in borehole S11, S12, S13, and S21<br>• Natural soils described as clay, light brown low to medium plasticity were generally encountered below the fill. |

| Aspect | Detail |
|---|---|
| Acid Sulfate Soils | Reference to Acid Sulfate Soil (ASS) risk mapping (https://www.environment.nsw.gov.au/eSpade2Webapp) accessed on 21 November 2024, shows the Site is located within an area mapped as having 'no known occurrence' of ASS. |
| Hydrology | Stormwater drains were present across hardstand areas onsite as observed during the Site visit. Rainfall runoff is expected to flow into the local stormwater network through onsite stormwater drainage system.<br>No apparent surface water bodies were observed on or near the Site. Reference to online mapping indicates Salt Pan Creek is located approximately 1 km south of the Site, flowing into the Georges River approximately 6.9km south of the Site. |
| Hydrogeology | A search of the publicly available registered groundwater bore database (https://minview.geoscience.nsw.gov.au/, on 22 November 2024) indicated that there are a cluster of nine monitoring bores approximately 500 m to the north-east occupied by the 7-Eleven Greenacre service station. No data on standing water level was publicly listed. Based on local topography, groundwater is anticipated to flow south, towards Salt Pan Creek. |

# 5. Preliminary Conceptual Site Model

## 5.1 Overview

A conceptual site model (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 is developed in the first stage of site assessment and revised as more detailed information on the Site and the nature of contamination 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 Site and environmental setting are presented in earlier sections of this report.

## 5.2 Potential Contamination Sources

Areas of Environmental Interest (AEIs) and CoPC were assessed based on Site history information and PSI findings. Identified AEI and CoPC are summarised in Table 7.

Table 7 Summary of identified AEI and CoPC.

| AREA OF ENVIRONMENTAL INTEREST | | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC | Description |
|---|---|---|---|---|---|
| AEI1 | The whole Site from potential fill of unknown origin and quality. | Medium | Soil, Groundwater | Metals, TRH, BTEX, OCP, OPP, PAH, PCB | The Site has been retained with multiple large retaining walls, the condition of the fill used to fill and level the Site is unknown. |
| AEI2 | Areas near former and existing structures from weathering and/or ineffective demolition of hazardous building materials | High | Soil | Asbestos, Lead | Numerous historical buildings existed throughout the southern and central portions of the Site. Some residential buildings were built circa 1940s with further construction continuing into the late 1950s.A TAFE building was demolished circa 2002. Most of the demolishment of residential dwellings appeared to occur around the 1970-1980s. |
| AEI3 | Transformer from potential use of oils (including oils with PCBs) | Low | Soil | TRH, PCB | Transformers can contain oils and could have contained PCBs. No access was provided at the time of our inspection; therefore, the size and condition of the transformer is unknown. |
| AEI4 | Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator | High | Soil and groundwater | Metals, TRH, BTEX, OCP, OPP, PAH, VOC | Access was not provided at the time of our visit, the storeroom in believed to have housed the maintenance equipment for the Site. Historical records revealed a flammable goods store, an underground fuel tank (500L) and reference to an incinerator, this was not accessible at the time of assessment, however photos provided by on Site staff suggested a tank may still be present. |

| AREA OF ENVIRONMENTAL INTEREST | | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC | Description |
|---|---|---|---|---|---|
| AEI5 | The offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams). | Low | Groundwater | PFAS | Bankstown Fire station is located approximately 190m northwest of the Site (upgradient). Fire stations have been known to historically store and use of firefighting foams, containing PFAS. The historical use of this fire station is not known. |

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.
- TRHs (total recoverable hydrocarbons), BTEX (benzene, toluene, ethylbenzene, xylene), metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc), PAHs (polycyclic aromatic hydrocarbons), OCPs (organochlorinated pesticides), OPPs (organophosphorus pesticides), PCBs (polychlorinated biphenyls), VOCs (volatile organic compounds), PFAS (per- and poly-fluoroalkyl substances)

The locations of the AEIs are presented in Figure 5-1.

Figure 5-1 Areas of Environmental Interest

Observations of the chemical storage within Building D, showed minor concentrations of commercial grade beauty products such as acetone, bleach and hair dyes stored in appropriate cabinetry with no signs of spillage, therefore SMEC does not consider this to be an AEI. Similarly, fuel storage within the TAFE showed very minor concentrations of fuel stored in jerry cans in an appropriately locked outdoor cabinet with no sign of spillage, therefore SMEC does not consider this to be an AEI.

## 5.3 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/fibres) and exposure by inhalation (if soil is disturbed).
- Migration of contaminated run-off and exposure to ecological receptors (aquatic ecosystems) (most likely if any construction work was to be undertaken).
- Surface water runoff.
- Leaching from soils into onsite groundwater followed by offsite migration (vertical and lateral).
- Contaminated groundwater migration onto the Site and from the Site to offsite surface water receptor (lateral).
- Vapour intrusion and inhalation from soil and groundwater sources.

## 5.4 Potential Receptors

Based on the information available, potential receptors identified at the Site have been assessed to include those listed in Table 8.

Table 8 Potential receptors.

| Potential Receptors | Description |
|---|---|
| Human receptors | • Site workers<br>– Outdoors (e.g. TAFE staff and maintenance, accessing utilities, etc.)<br>– Indoors (e.g. TAFE Staff)<br>• Site workers (potential future) – Doctors, nurses, other hospital staff<br>• Residents<br>– Residents in local medium and high-density residential apartments (offsite)<br>• Visitors to Site (potential future) – Hospital patients and visitors<br>• Downgradient offsite commercial/residential occupants and offsite maintenance workers (e.g. rail staff, maintenance workers accessing utilities, offsite apartment residents). |
| Ecological receptors | Ecological receptors at the Site are limited and may be only relevant in future proposed landscape areas and so ecological receptors should be therefore considered for these areas. SMEC note that the extent of future proposed landscape areas on the Site are currently unknown.<br>If soils are sufficiently impacted where there could be acute soil exposure risks and/or leaching into groundwater or migration to surface water, then terrestrial and aquatic receptors in the nearest surface water receptor would need to be considered respectively.<br>Drainage lines on the Site are currently not fully identified. It is noted that the closest aquatic receptors are expected to be Salt Pan Creek, approximately 1 km south of the Site which flows into the Georges River approximately 6.9km south of the Site. |

## 5.5 Potential Source Pathway Receptor Linkages

Potential source-pathway-receptor (S-P-R) 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 9.

Table 9 Potential contamination pathways and receptors.

| Source | Transport/Exposure Pathway(s) | Receptor(s) |
|---|---|---|
| AEI1-4 | • Direct dermal contact with contaminants or contaminated media.<br>• Inhalation of soil dust, fibres<br>• Ingestion of contaminated soil.<br>• Vapour intrusion (AIE1 and 4 only)<br>• Migration of contaminated runoff (soil or water) including via the onsite drainage network.<br>• Uptake by plants (if impacted soils reused in landscape areas)<br>• Leaching from soils into onsite groundwater by offsite migration (vertical and lateral). | • Site workers, residents and visitors.<br>• Site workers during future construction works or maintenance activities.<br>• Nearby off-site human receptors from windblown fibres/contaminated dusts during construction works.<br>• Downgradient offsite commercial occupants and offsite maintenance workers (e.g. accessing utilities).<br>• Aquatic ecosystems in surface water receptors.<br>• On-site plants/terrestrial organisms |
| AEI5 | • Migration of groundwater from offsite | • Site workers<br>• Downgradient ecological receptors. |

S-P-R linkages are potentially complete if contamination exists and is not managed.

## 5.6 Data Gaps

Following the desktop review, SMEC considered the following data gaps present at the Site.

- Exact TAFE activities in all areas is not fully documented including past chemical and waste storage practices/locations.
- Historical subjects, trades and practical activities are not fully known.

# 6. Assessment Criteria

## 6.1 Soil

### 6.1.1 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.

### 6.1.2 Health Investigation and Levels (HILs/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. Since 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 assessment criteria. The need for HIL C' public open space' can be revisited based on design developments and if areas of this type of use are included.

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 was adopted for this assessment with the more conservative criteria for 'sand' 0-<1m, and coarse-grained soils applied as first pass Tier I criteria. Site specific soil types and depths can be applied if relevant.

### 6.1.3 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. Similarly to the HILs defined in Section 6.1.2, considering the proposed hospital construction, the following ecological soil assessment criteria were used for the soil assessment:

- NEPM (2013) Table 1B (1) to 1B (5) Ecological investigation levels (EILs) – Urban residential and public open space – Generic EILS.

- NEPM (2013) Table 1B (1) to 1B (5) Ecological investigation levels (EILs) – Commercial and Industrial – Generic EILS.
- NEPM (2013) Table 1B (1) to 1B (5) Ecological investigation levels (EILs) – Urban residential and public open space – Site-specific EILs.
- NEPM (2013) Table 1B (1) to 1B (5) Ecological investigation levels (EILs) – Commercial and Industrial – Site-specific EILs.
- NEPM (2013) Table 1B (6) Ecological screening levels (ESLs) – Urban residential and public open space.
- NEPM (2013) Table 1B (6) Ecological screening levels (ESLs) – Commercial and Industrial.

For assessment against EILs, soil analytical results were compared with the NEPM (2013) Generic EILs to assess potential risks to current and future ecological receptors at the site for selected analytes (arsenic, lead and naphthalene). For other analytes (including copper, chromium, nickel and zinc) the EIL values rely on site-specific inputs and calculations.

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

Table 10 Physiochemical parameters to calculate site-specific EILs.

| Sample name | $pH_{CaCl2}$ | Cation Exchange Capacity (CEC) (meq/100g) | Total Organic Carbon (TOC) (%) | Clay Content (%) |
|---|---|---|---|---|
| TP111-0.1-0.5 | 7.3 | 30 | 0.33 | 22 |
| TP114-0.1-0.2 | 6.1 | 7.8 | 2.0 | 13 |
| TP132-0.5-0.6 | 4.0 | 9.0 | 0.39 | 56 |
| **Average** | 5.8 | 15.6 | 0.91 | 30.3 |

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 putting the average values from Table 10 into the NEMP (2013) ASX toolbox, the calculated criteria are presented in Table 11 below. In the absence of ambient background concentrations (ABC), we have conservatively assumed these to be zero.

Table 11 Physiochemical parameters to calculate site-specific EILs.

| | Copper *mg/kg* | Nickel *mg/kg* | Zinc *mg/kg* | Chromium *mg/kg* |
|---|---|---|---|---|
| Urban residential and open public spaces | 170 | 230 | 420 | 580 |
| Commercial and industrial | 240 | 390 | 610 | 970 |

### 6.1.4 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).

### 6.1.5 Asbestos Criteria

The adopted Site screening levels in accordance with NEPM (2013) are shown in Table 12.

Table 12 Asbestos Criteria

| Form of asbestos | Recreational public open space (HIL C) | Commercial/Industrial (HIL D) |
|---|---|---|
| Bonded ACM | 0.02% | 0.05% |
| FA and AF (friable asbestos) | 0.001% | |
| All forms of asbestos | No visible asbestos for surface soil | |

### 6.1.6 Aesthetic Criteria

Aesthetic criteria are generally not considered relevant for a commercial/industrial land use. Since the proposed redevelopment may include some areas being used for open space, SMEC has 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.

### 6.1.7 Waste Classification Criteria

Results were compared to waste classification criteria in NSW EPA (2014) Waste Classification Guidelines, Part 1: Classifying Waste to gain a preliminary assessment of potential waste classification for future construction work.

## 6.2 Groundwater

### 6.2.1 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.

The NSW Water Quality Objectives (WQOs) are the agreed environmental values and long-term goals for NSW's surface waters for 31 catchments in NSW. They set out the community's values and uses for our rivers, creeks, estuaries and lakes (i.e. healthy aquatic life, water suitable for recreational activities like swimming and boating, and drinking water); and a range of water quality indicators to help us assess whether the current condition of our waterways supports those values and uses. This Site is inferred to be within the Georges River catchment where groundwater may eventually discharge into Salt Pan Creek which eventually flows into the Georges River.

The water quality objectives listed for the Georges River catchment include:

- Aquatic ecosystems
- Visual amenity
- Secondary contact recreation

- Primary contact recreation
- Livestock water supply
- Irrigation water supply
- Homestead water supply
- Drinking water – disinfection only or clarification and disinfection
- Drinking water groundwater
- Aquatic foods (cooked)
- Industrial water supplies.

### 6.2.2 Health Criteria

Vapour Intrusion

Health Screening Levels (HSLs) for petroleum hydrocarbons are available from ASC NEPM (NEPC 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. Considering the proposed development, the following groundwater HSL criteria were adopted at the Site:

- HSL C 'recreational/open space' and HSL D 'commercial/industrial'.

We note that as the Site may require cuts into the natural slope, the depth of the cut needs to be accounted for in the application of the depth.

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.

Drinking

A search of registered bores did not suggest that groundwater is currently extensively used for drinking in the area. An assessment of the suitability of water for drinking based on salinity levels as measured in the field by electrical conductivity were made. Electrical conductivity as measured from the three groundwater monitoring wells ranged between 12,640µS/cm to 14,283 µS/cm (which is about 8,089mg/l to 9,141mg/l[2]). TDS values greater than about2,000mg/l are generally not considered suitable for drinking, therefore drinking water quality criteria are not considered relevant.

Recreational

Recreational criteria were sourced from:

- NHMRC (2008) Guidelines for Managing Risks in Recreational Water Quality. National Health and Medical Research Council, Commonwealth of Australia, Canberra.
- NHMRC (2019) Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water Guidelines for Managing Risks in Recreational Water Quality. National Health and Medical Research Council, Commonwealth of Australia, Canberra.

Guideline values applicable to drinking water quality are based on the daily consumption of 2 L. NHMRC (2008) indicates that when applying these values to recreational water exposure, consumption of 100–200 mL per day should be taken into consideration. For this assessment, where guidelines are not provided, recreational criteria has been based conservatively on 200ml consumption equating to the drinking water guideline multiplied by 10.

[2] Approximated by multiplying EC by 0.64 to convert to TDS

### 6.2.3 Ecological Criteria

The Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, August 2018), default guideline values (DGVs) were adopted for the Site as preliminary (i.e. Tier 1) assessment criteria, that is, levels above which further assessment may be required. The following was considered for this Site:

- Default Guideline Values for toxicants applying to 'marine water' aquatic ecosystems were considered most applicable as the likely discharge point is likely to be in a marine influenced environment
- Based on the highly urban setting of the Site and that the receiving system has been highly modified by past industrial practices, the 95% level of species protection applying to disturbed systems is considered applicable for conservative initial screening. Furthermore, where toxicants are noted to be potentially bio-accumulative, the trigger value for the next level of protection (i.e. 99%) were adopted.
- The ANZG (2018) have not yet published default guideline values for Physical and Chemical Stressors for all Australian inland waters and bioregions (http://waterquality.gov.au/anz-guidelines/your-location/australia-inland). Therefore, this assessment adopts the previous ANZECC & ARMCANZ (2000) Default trigger values for physical and chemical stressors for south-east Australia for slightly disturbed marine water ecosystems (applying to estuaries).
- ANZG (2018) & ARMCANZ (2000) have not published guidelines for total petroleum hydrocarbons or total recoverable hydrocarbons in groundwater. For this assessment, the laboratory limits of reporting were adopted as initial screening criteria.
- PFAS criteria were sourced from PFAS National Environmental Management Plan (Version 2.0 – January 2020).

### 6.2.4 Other

Assessment criteria for other water quality objectives (livestock, irrigation, industrial, aquatic foods) were based on ANZG (2018) or ANZECC & ARMCANZ (2000) where available.

# 7. Data Quality Objectives

The data quality objectives (DQOs) in Table 13 were developed for this investigation and are based on the requirements described in ASC NEPM (2013). Data Quality Indicators (DQIs) are included in Appendix D.

Table 13 Data quality objectives.

| Step | Tasks |
|---|---|
| Step 1<br>State the problem | The primary objectives are:<br>• Assess the potential for contamination to be present at the Site from past or present activities through intrusive investigations.<br>• Assess if contamination potentially poses a risk to human health or the environment.<br>• Provide recommendations on the need for further investigations and/or management based on the findings.<br><br>The findings of the Detailed Site Investigation (DSI)were used to inform the decisions identified in Step 2.<br>A preliminary CSM was presented in the desk study based on current available desktop information.<br>Previous investigations at the Site identified the presence of contamination and data gaps, which require further assessment. Thus, the main problem is to determine what sample layout should be used to address data gaps and to confirm the contamination status of the Site through further assessment.<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>The key assessment team consisted of the following SMEC staff: Harrison Wood (Environmental Scientist) and Manuel Fernandez (Technical Principle – CEnvP Site Contamination Specialist). |
| Step 2<br>Identify the decisions | The decisions to be made on the basis of the sampling will be:<br>• Is the Site suitable for the proposed hospital development?<br>• Is further assessment or remediation/management required?<br>• If remediation is required, what is the likely extent of remediation?<br>• What is the likely waste classification of soils at a preliminary level? |
| Step 3<br>Identify information inputs | The inputs required to make the decisions listed in Step 2 were as follows:<br>• Site history information including previous investigations<br>• Site observations made during the intrusive investigations, including observations of fill/natural soil depth, and contamination indicators (potential ACM, unusual odours, staining or buried waste materials)<br>• Field soil headspace screening for VOCs using a photo-ionisation detector (PID) during fieldwork<br>• Soil and groundwater concentrations of CoPC<br>• Applicable NSW EPA endorsed guidelines (refer to Section 6). |
| 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>The vertical boundary for soil is 0.5mbgl into natural soils. The vertical boundary for groundwater is the top of the first encountered aquifer, estimated to be 6-10m. |

| Step | Tasks |
|---|---|
| Step 5<br>Develop the analytical approach (decision rule) | The decision rule for soils will be 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>• Where contaminant concentrations for each sample are below the investigation levels then the potential for contamination at that location will be assessed to be low<br>• Where contaminant concentrations are reported to exceed the investigation levels, or where potential for significant variability is noted within sample data or Site conditions (i.e. reduced sampling density, changes to temporal conditions) additional assessment or remediation or management may be recommended. This may include further monitoring and/or management measures.<br>• Where sufficient data has been collected on a systematic pattern, the 95% Upper Confidence Limit (UCL) of the arithmetic mean contaminant concentration (excluding asbestos) 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 remediation criteria<br>– The standard deviation must be less than 50% of the human health remediation criteria.<br>The data will be used to refine the CSM and assess the need for what other data would be needed for the proposed Site development. |
| 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 were 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 8, and will optimise 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 based on the identified AEI and CoPC being targeted. |

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

# 8. Sampling Methodology

## 8.1 General

The Site has an approximate area of 3.9ha and reference to the NSW EPA (2022) Contaminated Land Guidelines: Sampling Design Part 1 - Application (Table 2) recommends a minimum of 49 sampling locations to assess a Site of this size, subject to the Site history and number/type of AEIs using a systematic sampling pattern. Noting that the Site has approximately 1ha of building footprints that are not currently accessible, about 39 locations are recommended for a 2.9ha area. The JBS&G Intrusive Due Diligence Contamination Assessment (2020b) completed 23 sample locations as part of the investigation, noting that these were completed as small diameter boreholes.

SMEC proposed an additional 32 sample locations, due to the number and type of AEIs as identified in the desk study using a combination of judgemental and systematic sampling locations to target specific AEIs and accessible areas of the Site.

Table 14 provides an outline of the methodology for sampling locations with respect to AEIs defined in the preliminary CSM.

Table 14 Summary of identified AEIs and sampling methodology.

| AEI | | Methodology |
|---|---|---|
| AEI1 | The whole Site from potential fill of unknown origin and quality. | Thirty two (32) additional soil sample locations (TP101 to TP132) using a combination of systematic and judgemental sampling techniques were used to supplement previous data collected. Some locations were slightly adjusted due to existing buildings and access. Three groundwater monitoring wells were installed to assess general groundwater quality.<br>Due to the number of previously demolished structures in the south and asbestos already having been recorded in the fill, the number of locations will not aim to assess if the Site is 'free' of asbestos but rather give an indication of how widespread this may be to inform a remedial and validation approach. Gravimetric sampling for asbestos was carried out using larger diameter boreholes/test pits as described in Section 8.2.2. |
| AEI2 | Areas near former structures from weathering and/or ineffective demolition of hazardous building materials | |
| AEI3 | Transformer | One sample location was positioned in an accessible area near this transformer to be used for soil sampling. As the transformer is still existent onsite, the footprint will not be able to be directly assessed. |
| AEI4 | Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator | Due to the nature of the maintenance storage room still existing, the footprint was not be sampled. Building E still exists above the underground fuel storage tank, the immediate vicinity was not able to be sampled. One sample location and groundwater well were installed in an inferred downgradient location as close as possible to this area based on access. |
| AEI5 | Whole of site from the offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams). | The three groundwater monitoring wells mentioned in AEI1 were sampled for PFAS, with each well situated at different locations onsite to assess the groundwater entering and within the Site. |

# 8.2 Soil

## 8.2.1 Excavation and Soil Sampling Procedure

The following procedure was adopted for soil sampling:

- DBYD plans were reviewed prior to breaking ground at each proposed test pit location
- An accredited service locator carried out services clearance at each proposed investigation location
- For test pits the excavator stripped a section of turf and placed this to the side of proposed test pit (in grassed areas)
- Excavated spoil was placed adjacent to the pit (opposite side of pit to turf) in order of excavation (e.g. top material furthest away from pit)
- In asphalt paved areas, a larger diameter auger (~300mm diameter) was used to penetrate the pavement and underlying soil. Care was taken to remove and separate asphalt once penetrated so that it does not intermix with underlying soils.
- A visual assessment was made of encountered soil material for the potential presence of contamination indicators such as staining, odours, buried wastes or suspected ACM contamination.
- Prior to sample collection, any personnel that handle 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 were worn for each sample.
- Soil samples were generally collected at regular intervals down the fill profile or if there was a suspect layer/material or visual/olfactory evidence of contamination as well as from the natural soils beneath fill.
- Samples from test pits were collected from spoil which has not come into 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. In paved areas the surface were covered with. Some settlement can occur and should be noted.
- Each soil sample were collected within clean laboratory-supplied 250 ml containers and placed immediately on ice. A new pair of nitrile gloves were worn during the collection of each sample and during logging.
- Samples for asbestos analysis were collected in zip lock bags.
- All soil samples were collected in duplicate into a separate zip lock bag and field-screened using a PID. The PID were calibrated in accordance with manufacturer instructions and include regular calibration checks as required. Calibration certificates/records are included in Appendix E.
- Details on preservation and holding times are shown in Table 15.

## 8.2.2 Asbestos Gravimetric method

Gravimetric sampling was carried out across the entire Site due to the history of numerous previously demolished houses/structures, likely to have been of ACM construction. Soil samples were collected as per Section 4.10 of ASC NEPM 1999 Schedule B2 and WA DoH (2021) guidelines hereafter referred to as the ‘gravimetric method’.

The following procedure was adopted:

- At least one minimum 10 L sample was collected from each relevant stratum (or per 1 m depth for thicker units and additional samples from any suspect layers down to the base of fill)
- Each sample comprised a 10-litre soil sample

- The 10-litre sample was weighed in the field (recorded as field 'wet weight') using a commercially available household scales, the field weight was recorded clearly on field notes
- The sample was then sieved through a 7mm sieve. The material retained within the sieve was then spread out onto a piece of plastic, any visible ACM fragments (>7mm) (retained in the sieve) were collected, placed in a zip locked bag and photographed, the condition of each fragment were recorded. Careful visual observations of the sieved soil material on the plastic were made. Where the soil type was 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 any ACM fragments >7mmx7mm
- Any suspected ACM fragments were double bagged into zip lock bags and submitted to the laboratory for weighing and asbestos presence/absence testing (in some instances it may be acceptable to analyse only representative fragments rather than every fragment). Once the sample was double bagged, the environmental scientist made observations with respect to the samples condition, as follows:
  - 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 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 test pit 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 test pit 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 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 is of a different nature, in which case asbestos content estimation can be 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.

### 8.2.3 Sample Containers and Preservation Requirements

Soil sample container and preservation requirements are described in Table 15.

Table 15 Soil sampling container and preservation requirements.

| Parameter | Container | Sample Volume | Preservation | Holding Time |
|---|---|---|---|---|
| TRH and BTEX | Glass jar with Teflon lined lid | 150mL | Cool to <6°C | 14 days |
| Metals | | | | 180 days |
| PAH | | | | 14 days |
| OCP, OPP | | | | 14 days |
| PCB | | | | 14 days |
| VHC, VOC | | | | 14 days |
| Asbestos (%w/w) | Zip-lock bag | 500mL | Nil | Indefinite |

## 8.3 Groundwater

### 8.3.1 Groundwater Monitoring Well Installation

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

- The three wells were installed at the locations presented on Figure 2, 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 100mm solid flight rotary auger to the 2m past the observed standing water table or a maximum depth of 12m bgl (whichever occurs first). Rotary air hammer techniques were used if rock is encountered and cannot be penetrated with augers.
- The wells were generally completed as follows:
  - 50mm machine slotted class 18 u-PVC screen were 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 will then be used to just below ground level
  - The base was fitted with an end cap
  - A filter pack comprising clean sand were backfilled around the annulus of the borehole to about 0.3m above the top of the screen
  - A bentonite seal of about 1m will then be installed above the filter media
  - Cement/bentonite grout were 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
  - Groundwater monitoring well completion details and survey details are included on the logs in Appendix F.
- Each well was developed following installation using a dedicated bailer or decontaminated stainless-steel bailer
- A surging action were 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 reusable sampling equipment (e.g. reusable bailers) were subjected to decontamination as described within Section 8.4.2.

## 8.3.2 Groundwater Sampling

Groundwater monitoring was undertaken at the three installed groundwater wells, presented on Figure 2, Appendix A. Groundwater monitoring field records are included in Appendix G.

### 8.3.2.1 Hydrasleeves™

Groundwater Sampling for PFAS was carried out using the following method, prior to low flow sampling for other analytes described in 8.3.2.2:

- The Hydrasleeves™ were retrieved manually from the monitoring bore by pulling the attached string upwards, the act of pulling the sleeve upward resulted in the check valves opening at the top of the Hydrasleeves™ and capturing water within the monitoring bore screen (representative of the target formation). To ensure only water from the screened interval was collected, the Hydrasleeve™ assembly was 'oscillated' (pulled up ~0.5m and left to drop back down) 3-5 times within the screened interval until full.
- The Hydrasleeves™ were then removed via the bore head and were suspended above the ground surface (as opposed to e.g., laying on ground) to avoid cross contamination.
- A dedicated sampling 'straw' was then used to pierce the Hydrasleeves™ and the laboratory provided sample bottles were then directly filled via the straw. This procedure allowed the groundwater to drain from the Hydrasleeve™ directly to the sample bottles with minimum agitation.
- Observations of water colour, clarity and odour were also recorded for the groundwater sample captured by the Hydrasleeves™ at each location.

### 8.3.2.2 Low Flow Sampling

Groundwater sampling for all analytes excluding PFAS was carried out using the following method:

- An interface probe was used to gauge the depth of standing water level, total well depth and check for the presence of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL) (if present).
- Groundwater samples were collected using low flow sampling techniques in general accordance with Victoria EPA (2000) Groundwater Sampling Guidelines and SMEC SOPs. A MicroPurge MP15 backpack controller was used to sample each well. To minimise potential for cross contamination, reusable components were decontaminated prior to sampling. The sample tube inlet was placed in the middle or slightly above the middle of the water column.
- Purging began at a rate ranging from 0.25 - 0.5 L/min. Some drawdown of the water table was noted during purging (up to about 30cm) suggesting a slow aquifer recovery for this technique.
- During purging, a calibrated water quality meter was used to take frequent measurements of field water quality parameters through a flow cell, including pH, electrical conductivity (EC), temperature, redox and dissolved oxygen (DO) until parameters stabilised. Parameters were considered stable when three consecutive readings (obtained several minutes apart) were within:
  - +/- 10% for dissolved oxygen
  - +/- 3% for electrical conductivity
  - +/- 0.1 for pH
  - +/- 10 mv for redox potential
  - +/- 0.5° for temperature
- Following stabilisation, groundwater samples were collected into laboratory supplied containers for the specified analysis suite using the same or lower flow rate. Details on preservation and holding times are shown in Table 16.

### 8.3.3 Sampling Containers and Preservation Requirements

Groundwater sample container and preservation requirements are described in Table 16.

Table 16 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 C6-C9) and BTEX | Amber glass vial, Teflon lined lid | 2x 40mL (vials) | Cool to <6°C, HCl preservative | 7 to 14 days |
| TRH (TRH C10-C36), PAH | Amber glass bottle | 1x 500ml | Cool to <6°C | 7 days |
| VOCs | Amber glass vial, Teflon lined lid | 2x 40mL (vials) | Cool to <6°C, HCl preservative | 14 days |
| PFAS | HDPE plastic bottle | 2 x 125ml | Cool to <6°C | 180 days |

## 8.4 Quality Assurance and Quality Control Plan

The following quality assurance and quality control plan was adopted for the environmental sampling in general accordance with NEPM 1999 requirements. The results were assessed with respect to the predetermined DQIs as referenced in the ASC NEPM, 2013 and as presented in Appendix D.

### 8.4.1 Sample Handling, Storage and Transportation

Sampling of soils were 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 were 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.

### 8.4.2 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.

Rinsate blanks were collected from collected and analysed for potential contaminates of concern from each reusable sampling equipment used per day, rinsates were collected as per the following:

- Rinsate 01 – Collected from the Drill Rig auger on 09/12/2024
- Rinsate 02 – Collected from the Excavator Auger on 09/12/2024
- Rinsate 03 – Collected from the Excavator Auger on 10/12/2024

- Rinsate 04 – Collected from the Drill Rig auger on 10/12/2024
- Rinsate 05 – Collected from the Excavator Auger on 11/12/2024

If reusable sampling equipment is used one rinsate blank was collected and analysed for potential contaminants of concern at a rate of one per piece of equipment per day of sampling.

Augers used for gravimetric sampling were brush scrubbed to remove soil particles.

Augers/drill rods used for groundwater monitoring well installation were washed with a high-pressure cleaner to remove soil, washed in diluted Liquinox (PFAS free) detergent solution then rinsed in potable water.

### 8.4.3 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 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. The water quality meter was calibrated by the rental company. Calibration certificates are presented in Appendix E.

### 8.4.4 Trip Blank and Trip Spike Samples

Laboratory-prepared soil trip blank and BTEX trip spike samples were taken into the field, transported and analysed together with samples collected within this project. The trip blank and spike samples were analysed for volatile contaminants (i.e. BTEX, TRH $C_6$-$C_9$ fraction). One soil trip blank and BTEX trip spike was collected per day of sampling and placed into an esky with samples which show evidence of potential hydrocarbon contamination (if any encountered).

### 8.4.5 Field Duplicate Samples

Duplicate samples were collected and tested for each analyte to assess precision in field sampling techniques and laboratory methods. Duplicate soil samples (comprising both inter and intra-laboratory) were analysed at a frequency of greater than 10%, which exceeds the DQI of 1 in every 20 samples as recommended in NEPM.

Table 17 below provides a summary of the duplicate identification and analysis.

Table 17 Field duplicate samples.

| Primary Sample ID | Media | Duplicate ID | Type | Analysis |
|---|---|---|---|---|
| TP112-0.05-0.1 | Soil | QA01 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA01-A | Inter laboratory duplicate | |
| TP115-0.8-0.9 | Soil | QA02 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA02-A | Inter laboratory duplicate | |
| TP117-0.1-0.2 | Soil | QA03 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA03-A | Inter laboratory duplicate | |
| TP103-0.1-0.2 | Soil | QA04 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA04-A | Inter laboratory duplicate | |
| TP105-0.1-0.2 | Soil | QA05 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA05-A | Inter laboratory duplicate | |
| TP131-0.5-1.1 | Soil | QA06 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA06-A | Inter laboratory duplicate | |
| TP132-0.2-0.3 | Soil | QA07 | Intra laboratory duplicate | |

| Primary Sample ID | Media | Duplicate ID | Type | Analysis |
|---|---|---|---|---|
| | | QA07-A | Inter laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| TP108-0.6-1.0 | Soil | QA08 | Intra laboratory duplicate | TRH, BTEX, metals, PAH, OCP, OPP, PCB |
| | | QA08-A | Inter laboratory duplicate | |
| BH101 | Water | QA01 | Intra laboratory duplicate | Metals, TRH, BTEX, VOC |

### 8.4.6 PFAS Protocols

The following additional protocols were adopted for groundwater monitoring well installation and groundwater sampling:

- Prior to sampling, the sampling personnel washed their hands with plain soap and rinsed thoroughly in tap water before donning a clean, new pair of disposable nitrile gloves.
- All monitoring well gear was new, unused with original seals and original undamaged wrapping.
- Field clothes – were not be new (i.e. washed minimum of six times).
- No stain resistant, water resistant/waterproof coatings or treated fabric were used.
- No Teflon products were used.
- No fast food wrappers, pre-wrapped foods (only rigid plastic or stainless-steel containers) were permitted onsite.
- No aluminium foil was permitted to be used.
- No ‘post it’ notes were permitted to be used.
- No reusable chemical ice packs were permitted to be used.

### 8.4.7 Documentation

CoC documentation was signed and dated by the laboratories, and laboratory Sample Receipt Advice was provided stating that:

- All samples have been received as described on the above COC (Except for an asbestos bag for TP125-0.1-0.3 which was not received)
- CoC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.

Copies of all laboratory documentation is presented in Appendix I.

### 8.4.8 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.

### 8.4.9 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.

## 8.4.10 QA/QC Compliance

### 8.4.10.1 Field QA/QC

The DQI non-compliances noted within field QA/QC are summarised in Table 18.

Table 18 Field QA/QC compliance summary.

| Non-compliance | Details |
|---|---|
| Sample Temperature | Sample temperatures were recorded above the recommended 6°C on Sample Receipt Notification for the samples from the following batches: SE275864 (7.3°C) and 1173417 (24.9°C).<br>All soil and water samples were transported to the primary laboratory with sufficient ice present within ice filled chests.<br>SMEC consider that slightly elevated sample temperatures are unlikely to affect the data useability, noting:<br>• Samples were kept in ice chilled eskies during fieldwork and refrigerated upon arrival at laboratory<br>• 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<br>The high sample temperature reported in the interlaboratory samples report (1173417), is likely due to the primary laboratory inadequately chilling the samples during the transportation between labs. |
| Holding times | Holding times were exceeded for the following samples:<br>• Date of Extraction of Conductivity and TDS by Calculation exceeded in samples TP111-0.4-0.5 (2 days), TP110-0.6-0.7 (2 days), TP114-0.1-0.2 (2 days), TP123-0.4-0.7 (1 day)<br>• Date of Analysis of Conductivity and TDS by Calculation exceeded in samples TP111-0.4-0.5 (3 days), TP110-0.6-0.7 (2 days), TP114-0.1-0.2 (3 days), TP123-0.4-0.7 (2 day), TP131-0.5-1.1 (1 day), TP132-0.5-0.6 (1 day), TP108-0.6-1.0 (1 day)<br>• Date of Extraction of OCP in Water exceeded in samples Rinsate 01 (3 days), Rinsate 02 (3 days), Rinsate 03 (2 days), Rinsate 04 (2 days) and Rinsate 05 (1 day)<br>• Date of Extraction of PAH in Water exceeded in samples Rinsate 01 (3 days), Rinsate 02 (3 days), Rinsate 03 (2 days), Rinsate 04 (2 days) and Rinsate 05 (1 day)<br>• Date of Extraction of PCB in Water exceeded in samples Rinsate 01 (3 days), Rinsate 02 (3 days), Rinsate 03 (2 days) and Rinsate 04 (2 days)<br>It is unknown why the exceedances exist, samples were received by the lab with time extract and analyse within holding times.<br>The slight exceedances are for persistent chemicals and the likelihood of these chemicals being present s considered to be low, therefore the holding time exceedance is unlikely to significantly impact the interpretation of the data. |

| Non-compliance | Details |
|---|---|
| Relative Percentage Difference (RPDs) – Soil | RPD results are presented in Table H6, Appendix H. RPDs above the adopted control limits of 30% were recorded in or the following soil samples:<br>• Between sample TP117-0.1-0.2 and corresponding intra-laboratory soil duplicate pair (QA03) for chromium (III+VI) (31%), zinc (37%) and moisture % (54%)<br>• Between sample TP117-0.1-0.2 and corresponding inter-laboratory soil duplicate pair (QA03-A) for zinc (38%) and PAHs (Sum of Totals) (133%)<br>• Between sample TP103-0.1-0.2 and corresponding intra-laboratory soil duplicate pair (QA04) for zinc (65%) and PAHs (Sum of Totals) (133%)<br>• Between sample TP103-0.1-0.2 and corresponding inter-laboratory soil duplicate pair (QA04-A) for arsenic (86%), chromium (III+VI) (70%), copper (78%), lead (42%), nickel (51%) and Benzo(a)pyrene TEQ (120%)<br>• Between sample TP131-0.5-1.1 and corresponding intra-laboratory soil duplicate pair (QA06) for copper (78%), lead (140%), nickel (172%) and zinc (69%)<br>• Several RPDs which were recorded above the field or laboratory acceptance limits have been disregarded where sample concentrations were less than 10 times the laboratory limit of reporting<br>These RPDs are considered to be associated with the heterogenous nature of contaminant distribution throughout the fill/soil matrix. Some slight variability could be expected in some of these contaminant results. |
| RPDs – water | Field duplicates recorded relative percentage difference (RPDs) within the adopted control limits of 30%. Refer to Table H7, Appendix H for further detail. We note that at the time of sampling insufficient containers were available for duplicate analysis of TRH (C10-40), PAH ad PFAS. The precision cannot be assessed for these contaminants. |
| Trip Blank / Trip Spike | Trip Spike and Blanks were used during fieldworks, including three (3) soils and one (1) water to assess potential for cross contamination between samples.<br>• All trip blank concentrations were below the LOR<br>• All trip spike recoveries were within the DQIs (70-130%)<br>Refer to Table H8, Appendix H for further detail. |
| PFAS Blank | A PFAS Blank (water) acquired from SGS was taken to the field during groundwater sampling, to assess for cross contamination between samples. All PFAS analytes recorded concentrations below the LOR. Refer to Table H8, Appendix H for further detail. |
| Rinsate | Detects were recorded above the reporting limit for the following rinsate samples:<br>• TRH F2 fraction in sample Rinsate 01, Rinsate 02, Rinsate 03, Rinsate 04 and Rinsate 05 in batch SE275864<br>The following is noted:<br>• TRH F2 concentrations were below the LOR for all primary samples in batch SE275864<br>• Concentrations of all other analytes, were not detected<br>• Decontamination protocols (as documented in Section 8.4.2) were adhered to for the duration of the field program<br>Considering the above, concentrations of the above analytes do not appear to have been carried across between samples. Thus, this is not expected to affect the useability of the sample data.<br>Refer to Table H9, Appendix H for further detail. |
| COC Completion | The laboratory noted no asbestos bag was received for TP125-0.1-0.3, which led to the samples not being able to be analysed for Asbestos NEPM 500mL. |

### 8.4.10.2 Laboratory QA/QC

The DQI non-compliances noted within laboratory QA/QC are summarised in Table 19.

Table 19 Field QA/QC compliance summary.

| Non-compliance | Details |
|---|---|
| Laboratory Duplicates (LD) | Laboratory duplicates (LD) exceeded acceptance criteria in the following samples:<br>• LD recovery recorded RPDs in soil sample in batch SE276220 outside of adopted control limits for Total PAH in anonymous sample SE276224.003. SGS Stated that *"RPD failed acceptance criteria due to sample heterogeneity."*<br>• LD recovery recorded RPDs in water sample in batch SE276667 outside of adopted control limits for d8-toluene in sample BH102 and anonymous sample SE276224.003, SGS stated *"at least 2 of 3 surrogates are within acceptance criteria."*<br>• LD recovery recorded RPDs in secondary batch 1173417 outside the adopted control limits for TRH C15-C28 in anonymous sample (S25-Ja0000849). Eurofins stats that *"The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review"*<br>• LD recovery recorded RPDs in secondary batch 1173417 outside the adopted control limits for Nickel in anonymous sample (N24-De0050007). Eurofins stats that *"The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review"* |
| Matrix Spikes (MS) | Matrix spikes (MS) were outside of acceptance criteria in the following samples:<br>• MS recoveries for TRH C15-C28 (-7%), TRH C29-C36 (48%), TRH >C16-C34 (F3) (-40%) and methoxychlor (136%) in batch SE275864 for sample TP111-0.4-0.5 (SE275864.002) were outside of the DQOs. SGS states that *"Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).".*<br>• MS recoveries for nickel (57%) in batch SE275864 for sample Rinsate 01 (SE275864.070) was less than lower DQOs. SGS states that *"Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).".*<br>• MS Recoveries for TRH C15-C28 (-670%), TRH C29-C36 (-175%) and TRH >C16-C34 (F3) (-906%) for QC Sample (SE276167.001), was lower than the DQOs. SGS states that *"Recovery failed acceptance criteria due to sample heterogeneity."* |
| Surrogate Recoveries | Surrogate recoveries were outside of acceptance criteria in the following samples:<br>• The surrogate recovery for Tetrachloro-m-xylene (15%), 2-fluorobiphenyl (6%), d14-p-terphenyl (17%), d5-nitrobenzene (6%), TCMX (15%) in batch SE275864 for sample TP126-0.1-0.4 (SE275864.043) was outside of DQOs (60-130%), indicating the potential for underreporting of this analyte.<br>• The surrogate recovery for d8-toluene (49%), in batch SE275864 for sample TP111-0.4-0.5 (SE275864.002) was outside of DQOs (60-130%), indicating the potential for underreporting of this analyte.<br>• The surrogate recovery for PFAS (13C4-PFHpA) (208%) and PFAS (13C8-PFOSA) (152%) for sample BH101 was outside of DQOs, SGS stated that *"recovery failed acceptance criteria due to matrix interference."*<br>• The surrogate recovery for PFAS (13C2_PFTeDA) (0%), PFAS (13C2-6:2 FTS) (12%), PFAS (13C2-8:2 FTS) (7%), PFAS (13C7-PFUdA) (28%), PFAS (13C8-PFOS) (23%), PFAS (D3-N-MeFOSA) (3%) and PFAS (D5-N-EtFOSA) (1%) for sample BH102 was outside of DQOs, SGS stated that *"recovery failed acceptance criteria due to matrix interference."*<br>• The surrogate recovery for PFAS (13C2-8:2 FTS) (39%), for sample BH103 was outside of DQOs, indicating the potential for underreporting of this analyte. |

#### 8.4.10.3 QA/QC Summary

Some slight deviations were noted from the adopted DQIs, but were assessed not to be significant. Based on the above data evaluation, SMEC considers the data to be useable for the purposes of this assessment.

# 9. Field and Laboratory Results

## 9.1 Subsurface Conditions

Borehole, test pit and hand auger logs are presented in Appendix F. Photographs of typical soil profiles and examples of the soil material observed during sampling are included in Appendix C.

The generalised subsurface conditions encountered at the sampling locations during the DSI are summarised in Table 20.

### 9.1.1 Soil

The generalised subsurface conditions encountered at the sampling locations during the DSI fieldworks are summarised in Table 20 below.

Table 20 Summary of subsurface conditions observed at test pit and borehole locations.

| Unit | Typical description | Top of unit (m bgl) | Indicative thickness (m) | Location |
|---|---|---|---|---|
| PAVEMENT | Asphalt | 0.00 | 0.05-0.1 | BH08 |
| CONCRETE SLAB | Concrete, pavers (TP109) | 0.00 | 0.1 | TP109, TP110, TP118 and TP120 |
| FILL | General Fill Mixtures/Layers:<br>• Varied mixtures of clay, gravel, silt, sand, cobbles<br>• A trace (< 5%) of anthropogenic inclusions at locations: TP107, TP109, TP111, TP112, TP113, TP114, TP115, TP116 and TP119 (including a mix of brick, metal, rods, terracotta, tiles)<br>• Suspected ACM was observed at locations: TP111, TP112, TP115, TP119 (During backfill), TP122<br>• Inclusions of ash observed at locations: TP101, TP108, TP113, TP115 | 0.00 – 0.18 | ~0.3 – 1.1<br>Unknown at: TP119 (terminated in fill layer) | All Test Pit Locations |
| RESIDUAL SOIL | Clay, high plasticity, orange/red with grey mottle | 0.4 – 1.8 | Unknown (terminated in layer) | BH01-5, BH07-8, SMW01-3, TP04 |

Unusual staining or odours were not noted during sampling at the DSI test locations.

Soil screening using a PID was carried out to check for volatile contaminants. The PID field screening of soil samples recorded results ranging between 0.5 to 6.2 parts per million (ppm) which are inferred to be low. PID records are provided in Appendix G. PID calibration certificate is presented in Appendix E.

Groundwater inflow was not observed in any of the test pits.

### 9.1.2 Groundwater

Photographs of completed groundwater wells, taken either at the time of installation or monitoring, and of samples are included in Appendix C. Fieldnotes, including water quality results during purging, and photographs taken of Hydrasleevs™ are included in Appendix G.

The following observations were noted during the groundwater sampling (undertaken 9 January 2025):

- Standing groundwater depth/levels are presented in Table 21 and were recorded between 7.56mbgl (28.58mAHD) (location BH102) and 27.0mAHD (location BH101)
- pH was recorded between 6.74 (location BH102) and 7.09 (location BH101)
- Groundwater at location BH102 was observed to have a mild turbidity and slight brown colour
- No unusual odours were observed at all locations at the time of sampling.

Table 21: Groundwater Levels

| Monitoring Well ID | Standing Water Depth (mbTOC) | Top of Casing (mAHD) | Ground Level (mAHD) | Standing Water Depth (mbgl) | Standing Water Depth (mAHD) |
|---|---|---|---|---|---|
| BH101 | 9.06 | 50.007 | 50.09 | 9.14 | 40.95 |
| BH102 | 7.44 | 36.023 | 36.14 | 7.56 | 28.58 |
| BH103 | 8.06 | 32.064 | 32.22 | 8.22 | 24.00 |

## 9.2 Laboratory results

### 9.2.1 Soil

Tabulated analytical results for soil analysis and asbestos gravimetric sampling are summarised in Tables H1, H2 and H3, Appendix H. The laboratory analysis reports are included in Appendix I.

#### 9.2.1.1 Health Criteria

The adopted health criteria was exceeded for the following analytes and samples:

- Asbestos:
  - Bonded asbestos (i.e. fragments >7mm) was recorded above the recreational (HIL C) (0.02%w/w) criteria in soil sample TP112-0.3-0.4 (0.027%w/w) through gravimetric sampling.
  - AF/FA was recorded above the recreational (HIL C) and commercial/industrial (HIL D) criteria (0.001 %w/w) in soil samples TP112-0.3-0.4 (0.002%w/w) and TP105-0.1-0.2 (0.006%w/w).
  - Whilst not above the adopted criteria, asbestos was also found in in either bonded or AF/FA forms in the field and/or laboratory at locations TP111, TP113, TP115, TP119 and TP122.
- Metals:
  - Lead in soil sample TP132-0.2-0.3 (770 mg/kg) exceeding the HIL C criteria (600 mg/kg).

Locations of health criteria exceedances and locations where asbestos was observed using the data from both the SMEC and JBS&G investigations are shown in Figure 3, Appendix A.

#### 9.2.1.2 Ecological Criteria

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

- Arsenic in sample TP101-0.1-0.5 (180mg/kg) exceeded the EIL urban residential and public open space criteria (100mg/kg) and commercial/industrial criteria (160mg/kg).
- BaP in sample TP111-0.4-0.5 (0.9 mg/kg) exceeded ESL urban residential criteria (0.7 mg/kg).

#### 9.2.1.3 Management Limits

The adopted management limits were not exceeded for any of the samples tested.

#### 9.2.1.4 Aesthetic Criteria

Trace amounts of anthropogenic materials including a mix of brick, metal, rods, terracotta, tiles were identified in the soil profiles at sample locations TP107, TP109, TP111, TP112, TP113, TP114, TP115, TP116 and TP119. Ash inclusions and/or ash fill layers were identified in the soil profiles at sample locations TP101, TP108, TP113, TP115.

Anthropogenic materials and ash inclusions observed in fill layers are described in Section 9.1. The quantities observed did not typically suggest a widespread aesthetic issue but should be considered for hospital construction. Ash and some anthropogenic materials may present an aesthetic issue if exposed or used in upper parts of recreational/landscape areas and should be avoided.

### 9.2.2 Groundwater

Tabulated analytical results for groundwater analysis are summarised in Table H4, Appendix H. The laboratory analysis reports are included in Appendix I.

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

- Concentrations of copper in sample BH102 (0.006mg/L) exceeded the ANZG (2018) marine water 95% DGV (0.0013 mg/L)
- Concentrations of nickel in sample BH103 (0.07mg/L) exceeded ANZG (2018) marine water 95% DGV (0.07 mg/L)
- Concentrations of zinc in samples BH102 and BH103, exceeded ANZG (2018) marine water 95% DGV (0.015mg/L) .
- Concentrations of Perfluorooctane sulfonic acid (PFOS) (0.0043ug/L) in sample BH102, exceeded PFAS NEMP (2020) Interim Marine 99% species protection criteria (0.0023µg/L).

### 9.2.3 Preliminary Waste Classification

The soil waste classification for the Site was assessed at a preliminary level using the six-step-process described in the NSW EPA Waste Classification Guidelines Part 1: Classifying Waste (NSW EPA, 2014).

Table H5 Appendix H presents the soil results from this current assessment compared to waste classification criteria.

The preliminary waste classification of the soil at the Site was assessed using the six step waste classification process and summarised in Table 22 below.

Table 22 NSW EPA six-step waste classification process

| NSW EPA Waste Classification Steps | |
|---|---|
| Step 1 | Is the waste special waste?<br>Yes in part. Some fragments of bonded ACM and AF/FA have been identified in the soil. Soils containing asbestos will classify as special waste (to be managed as asbestos).<br>Areas without asbestos did not observe materials that would suggest a special waste classification. |
| Step 2 | Is the waste liquid waste?<br>No. The soil was 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. |
| Step 4 | Does the waste possess hazardous characteristics? |

| NSW EPA Waste Classification Steps | |
|---|---|
| | No. No hazardous characteristics were identified by the site investigations. |
| 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>Table H5 Appendix H presents the soil results from this assessment. Some initial exceedances of the CT1 criteria were recorded for arsenic, lead and nickel. Leachability testing using the TCLP was subsequently carried out on a selection of samples for these metals and comparison to both the SCC1 and TCLP1 criteria did not record any exceedances of the General Solid Waste Criteria. The data available therefore meets criteria for General Solid Waste from chemical assessment. |
| Step 6 | Is the waste putrescible or non-putrescible?<br>Non-putrescible. The material is composed predominantly of clays. 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 if soils require offsite disposal:

- Soils which contain asbestos would classify as special waste and be General Solid Waste (to be managed as asbestos)
- Soils at the Site comprising fill or disturbed ground and not containing asbestos appear to be able to be classified as General Solid Waste (non-putrescible)
- Pavement materials such as asphalt and concrete pre-classify as General Solid Waste (non-putrescible)
- Natural soils below the fill may be able to be classified as Virgin Excavated Natural Material (VENM) once all other surface fill has been removed and areas requiring remediation/assessment are validated.
- 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. We further understand that there are additional criteria in some of these licences over and above 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 Environment Protection Licence. Subject to confirmation by the receiving recycling facility that it meets all relevant approvals and licence conditions, the material may be recyclable. Council would need to provide results to recyclers for them to assess and review if they would accept the material for recycling (including quantities).
- Excess waste must be disposed offsite to an appropriately licenced waste facility and prior approval sought from this facility before transporting offsite. Depending on the facility, allowance should be made for up to 7 days for this approval process
- The Protection of the Environment Operations (Waste) Regulation 2014 (the Waste Regulation) makes it an offence to transport waste generated in NSW by motor vehicle for disposal more than 150 kilometres from the place of generation, unless the waste is transported to one of the two nearest lawful disposal facilities from the place of generation (even if that facility is located more than 150 kilometres from its place of generation).
- All waste disposal dockets must be retained.
- Other options for transport of soils offsite are to assess soils against relevant NSW EPA Resource Recovery Orders/Exemptions.

# 10. Discussion

## 10.1 General

The following discussion is based on results of the DSI at the Site, with reference to the CSM developed in Section 18. A data validation assessment was carried out and found the data collected is useable (refer to Section 8.4.10 and Appendix D).

## 10.2 Soil

AEI1 – The whole Site from potential fill of unknown origin and quality.

Fill was observed at all sampling locations, comprising varied mixtures of clay, gravel, silt, sand, and cobbles. A trace of anthropogenic materials, including items such as brick, metal, rods, terracotta, and tiles, were identified in the soil profiles at some sample locations (TP107, TP109, TP111, TP112, TP113, TP114, TP115, TP116, and TP119). Ash inclusions and/or ash fill layers were identified in the soil profiles at sample locations in the north and central part of the Site (TP101, TP108, TP113, and TP115). The fill depth varied across the Site due to cut-and-fill activities and ranged in depth from about 0.2m to 1.8m bgl. The deepest fill was observed in test pit TP114 in the central portion of the Site. The deeper fill at this location could be associated with past disturbance in this area where a former TAFE building was located.

Under the proposed development scenario, the amount of anthropogenic material is considered unlikely to pose an aesthetic issue, but if on Site reuse is proposed use of materials with these anthropogenic inclusions should be avoided at the surface of landscaped areas.

Asbestos was found by SMEC in the fill at seven locations. A previous assessment by JBS&G also found asbestos in the central part of the Site (SS11) and in close proximity to the SMEC TP112 location. Asbestos found in the central and southern part of the Site is considered to be likely associated with former structures and discussed further under heading AEI 2 below. The asbestos at location TP105 in the north-west does not appear to coincide with former structures and could possibly be associated with the fill, although the fill did not appear distinctly different to other areas. The asbestos at TP105 was found as AF/FA and exceeded health criteria for recreational land use.

Lead concentrations exceeding health criteria were recorded at two locations, one SMEC location and one previously by JBS&G, both in the southern part of the Site. The lead is inferred more likely to be associated with historical residential structures in this area rather than from the fill and discussed under heading AEI 2 below.

Exceedances of the adopted EIL for urban residential, public open space, and commercial/industrial land uses were noted for arsenic (TP101), as well as exceedances of the ESL for urban residential for BaP (TP111) in separate samples within the fill material. The exceedances did not appear to correlate to a particular area or particular fill layer and therefore not considered to be widespread. Since the majority of the Site is proposed to be redeveloped, including some cut into the natural slope, it is expected that the majority of the fill will be removed. The 95% upper confidence limit (UCL) of the arithmetic average concentration was estimated based on the SMEC analysis results for both arsenic and BaP for the full SMEC data set. The results showed concentrations below the respective criteria (Arsenic 31mg/kg and BaP 0.25mg/kg) and met the decision rule requirements as per Step 5 of the DQOs. Sensitivity was checked using only samples from fill/topsoil and the results were still below the criteria. These results are included in Appendix J.

### AEI2 – Areas near former structures from weathering and/or ineffective demolition of hazardous building materials

As described above asbestos exceeding recreational health criteria was recorded in the central part of the Site (TP112) (and JBS&G location S11). This area coincided with a former TAFE building that was demolished. Other occurrences of asbestos were recorded in this central area and in the southern car park area, although not exceeding adopted criteria. The asbestos in these areas is considered to likely be remnants from historical structures demolished in this area from either weathering, damage or from demolition. The area of the southern car park had multiple former residential structures and it is possible that other locations with asbestos could be present that were not found from this testing due to the heterogeneous nature of this contaminant. As Site redevelopment works will likely involve significant earthworks for building footprints, the materials may end up being removed from Site, but the presence of asbestos will affect waste classification and will also need to be considered as part of overall health and safety and construction controls, therefore it would be prudent that the asbestos be managed early in the process.

Lead concentrations exceeding health criteria for recreational land use were recorded at two locations, one SMEC location and one previously by JBS&G, both in the southern part of the Site. The lead is inferred potentially to be associated with historical residential structures in this area from lead based paints which is not unusual for former residential structures which were evident since at least the early 1940s.

The 95% UCL of the arithmetic average concentration was estimated based on the SMEC analysis results for lead for the full SMEC data set. The results showed concentrations below the respective criteria (lead 115mg/kg) and met the decision rule requirements as per Step 5 of the DQOs. Sensitivity was checked using only samples from fill/topsoil and also with the inclusion of the high lead result recorded in the previous JBS&G investigation and the results were still below the criteria. These results are included in Appendix J. Whilst the statistical analysis was carried out across the Site as a whole if fill soils are to be reused it would be prudent to employ good materials segregation and management practices to avoid using soils with higher concentrations and validate soils before use.

As discussed under the AEI1 heading above, a trace of anthropogenic materials were found in fill. Some of this correlated with the central part of the Site in the area of the former demolished TAFE building.

### AEI3 – Transformer

One sample location (TP110) was positioned near the transformer but close access was limited due to the transformer still being live and presence of concrete. No visual evidence of contamination was observed at the location and laboratory results did not exceed the adopted criteria.

### AEI4 – Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator

Direct access to the store room was not possible as it was inside the TAFE complex and was still in use. One borehole (BH102) was positioned in an inferred down and slightly cross gradient location within about 10m of the store. No visual evidence of contamination was observed at the location and laboratory results in soil did not exceed the adopted criteria. Groundwater is discussed in Section 10.3 below and some of the exceedances recorded are not inferred to be associated directly with this AEI. The underground storage tank will need to be located and removed as part of demolition with appropriate validation.

### AEI5 – Whole of site from the offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams).

Three groundwater samples were analysed for PFAS from the north (upgradient), central and southern (downgradient) portions of the Site. Some PFAS compounds were detected in all three monitoring wells. PFAS was not recorded above the assessment criteria in the northern well (BH101) or southern well (BH103) for the available PFAS criteria. PFOS was recorded at a concentration of 0.0043µg/l, above the 99% species protection criteria of 0.0023µg/l in the central well (BH102).

Due to the elongated nature of the Site the wells did not provide triangulation to allow contours to be estimated and overall flow direction. Based on the topography the groundwater flow is expected to be in a broadly southerly direction. The Bankstown Fire Station is located approximately 200m north-west of the Site and inferred to be partially upgradient based on topographic contours. There are data gaps in terms of the activities at the fire station and if PFAS is of an actual concern. We note that reference to the NSW Fire and Rescue website (accessed 3/2/2025) did not list the Bankstown site as a current investigation site.

We note that the PFOS 99% species protection criteria is a regarded as a conservative criteria and applies at the discharge point. In this case this has also inferred to be Salt Pan Creek about 1km south of the Site.

The source of the PFOS is not clear at this stage since it has been recorded in the central part of the Site and not upslope or downslope. This s also based on only one round of monitoring. Since the primary potential source is located offsite, issues relating to PFAS are considered to be not a HINSW responsibility and unlikely to affect the proposed development. If dewatering is going to be a requirement for cuts into the natural slope then this would need to be considered in terms of disposal.

## 10.3 Groundwater

Exceedances of the ecological criteria for protection of aquatic ecosystems was recorded for copper, nickel and/or zinc in wells BH102 and BH103. Whilst no exceedances of the adopted criteria were recorded in the inferred upgradient well (BH101), it is noted that an explicit source of copper, nickel and/or zinc on the Site that could affect groundwater located at a depth of over 7m within a fractured rock aquifer appears unlikely. The metal concentrations could be natural and within the natural variability. These are therefore not considered significant in the context of the proposed development.

PFAS in groundwater was discussed in Section 10.2 (under heading AEI 5) above.

## 10.4 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.

Asbestos in smaller particles regarded as AF/FA was recorded above 0.001% at two locations which meets two of the three triggers for reporting. The third trigger is the test of foreseeability and if a person has been, or foreseeable will be exposed to levels of asbestos by breathing them into their lungs. Both these areas were grass covered and asbestos was not observed at the surface. It is unlikely that this foreseeability trigger would be met, but require interim management of the Site under its current land use until such time of redevelopment. We understand that this would be an issue for TAFE to address and not necessarily HINSW unless they become the owner.

The lead exceedances recorded do not meet the reporting triggers as the 95% UCL for the Site does not exceed the criteria, there is no individual soil sample exceeding 250% of the criteria and the exceedances are under a carpark where it is not foreseeable that a person has or will be exposed.

Based on our review of the guidelines and the results of this assessment, we consider that the current data does not meet the triggers for a duty to report to the EPA.

# 11. Conclusions and Recommendations

## 11.1 Conclusions

Review of historical information from previous reports indicated that the southern portion of the Site was used for residential housing, with the central and northern areas remaining vacant until circa 1956, when buildings associated with a TAFE facility were constructed. Residential dwellings were progressively demolished for TAFE expansion including the TAFE car park in the south. A TAFE building in the central part of the Site was also demolished sometime between 1994 and 2002. The Site has and continues to operate as a TAFE for educational purposes. A flammable liquids store is located in the central part of the Site with historical information suggesting a 500L underground fuel tank is present in this area, which may still be in situ.

Based on Site history and observations, five potential AEIs and associated potentially contaminating sources were identified, including the following:

- AEI1 – The whole Site from potential fill of unknown origin and quality.
- AEI2 – Areas near former structures from weathering and/or ineffective demolition of hazardous building materials
- AEI3 – Transformer from potential use of oils (including oils with PCBs)
- AEI4 – Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator
- AEI5 – Whole of Site from the offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams).

### Site investigations

This DSI included instigating a sampling plan involving soil and groundwater sampling targeting the identified AEI. The DSI included soil sampling from 32 test pits and one borehole from a combination of judgmental and systematic sampling noting access restrictions due to building footprints. Groundwater was assessed through sampling from three groundwater monitoring wells. Associated laboratory testing of relevant contaminants of concern was carried out from selected soil and groundwater samples.

Previous investigation and DSI field observations and analytical results were considered in this assessment. The analytical data obtained from new locations undertaken as part of this investigation generally supported the JBS&G analytical data.

### Findings

- Ground conditions
  - Fill was observed at all sampling locations comprising of varied mixtures of clay, gravel, silt, sand, cobbles, with anthropogenic material observed at 9 locations, ash inclusions observed at 4 locations. Fill depth varied across the Site due to the cut and fill nature, with a maximum depth of 1.8m bgl in the central portion of the Site.
  - A trace of anthropogenic inclusions were recorded within the fill. Under the proposed development scenario, the amount of anthropogenic material is considered unlikely to pose an aesthetic issue, but if on Site reuse is proposed use of materials with these anthropogenic inclusions should be avoided at the surface of landscaped areas.
  - The fill was underlain by residual clayey soils and weathered shale.
- Soil contamination exceeding the adopted assessment criteria has been recorded as follows:
  - Health criteria:
    - Asbestos in both bonded and AF/FA forms at three locations (2 SMEC locations and 1 previous JBS&G location) exceeding recreational and/or commercial/industrial criteria

    - Lead exceedances at two locations exceeding recreational criteria. The 95% UCL for lead for the Site as a whole was below the criteria.
  - Ecological criteria: Exceedances were recorded at two locations for arsenic and/or BaP. Statistical assessment showed that these exceedances were not significant in the context of the proposed development.
- Some exceedances of the adopted ecological criteria were recorded in groundwater for some metals and PFAS (one location). In general the concentrations were considered to be low and unlikely to affect the proposed development except if dewatering is going to be a requirement for excavations then this would need to be considered in terms of disposal.
- A Preliminary Waste Classification was undertaken using the data from this DSI. In summary the results concluded that soils which are found to contain asbestos would classify as special waste and be General Solid Waste (to be managed as asbestos). Soils comprising fill or disturbed ground and not containing asbestos appear to be able to be classified as General Solid Waste (non-putrescible) from the areas tested. Other advice on waste classification is included in Section 9.2.3 of the report.
- Due to the identification of contamination at the Site, remediation and/or management is required to make the Site suitable for the proposed development. We consider that the contamination can be managed through common remediation techniques and careful soil segregation, and therefore likely to be able to be made suitable for the proposed development subject to the recommendations in Section 11.2.
- 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.

## 11.2 Recommendations

Based on the findings of this DSI and with respect to a proposed hospital development, SMEC recommend that a Remedial Action Plan (RAP) be prepared to document the contamination remediation and management requirements (determined through risk-based assessments, considering proposed development types, layouts, type of structures, site controls, receptors and potential site specific exposure). In some cases, the development may be adjusted to optimise environmental, sustainability, cost and compliance outcomes. Items which the RAP should cover include (but not limited to):

- Removal of all hazardous building materials from structures (and below ground services) that require demolition in accordance with relevant regulations and codes along with adequate assessment and clearance prior to demolition to avid the introduction of contamination to the ground.
- Further assessment of areas below building footprints that were not accessible at the time of this investigation following demolition.
- Further assessment/validation following removal of the transformer.
- Remediation and validation of known areas of contamination if any fill soils that have been assessed as being impacted are proposed to be reused or left on Site.
- Removal/abandonment of the underground storage tank and pipework including validation. The method will depend on development details and to comply with relevant guidance.
- Excavation and material segregation requirements (including stockpiling, waste classification and disposal/reuse protocols) and protocols aiming at minimising unintended mixing of different material types to enable reuse in specific areas of the Site or to manage offsite disposal classifications. This will have emphasis on careful excavation and management of soils in areas of former structures (southern and central part of the Site) with a method for segregation and validation to reduce potential for bulk cross contamination.
- Management of groundwater for disposal if this is required as part of construction.

- An unexpected finds protocol to manage contamination if it were uncovered during redevelopment of the Site. If contamination is identified during construction, then it should be adequately remediated or managed in a way that makes the Site suitable for the proposed development, including relevant validation and reporting.

# 12. References

CRC Care (2013) Petroleum hydrocarbon vapour intrusion assessment: Australian guidance, Technical Report no. 23, CRC for contamination Assessment and Remediation of the Environment, dated July 2013.

Friebel and Nadebaum (2011) Health screening levels for petroleum hydrocarbons in soil and groundwater, part 1: Technical development document, Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE Pty Ltd) Technical Report Series No. 10.

NEPC (2013) Assessment of Site Contamination NEPM Toolbox, National Environment Protection Council (NEPC).

NEPM (2013) National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended in 2013, National Environment Protection Council.

NSW EPA (2022) Contaminated Land Guidelines: Sampling Design part 1 - application.

NSW EPA (2014) Waste Classification Guidelines, Part 1: Classifying Waste.

NSW EPA (2015) Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997.

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

NUDLC (2020) Minimum Construction Requirements for Water Bores in Australia, Fourth Edition, National Uniform Drillers Licencing Committee (NUDLC), dated 2020.

PFAS NEMP (2020) PFAS National Environmental Management Plan 2.0, Department of Agriculture, Water, and the Environment.

State Environmental Planning Policy (Resilience and Hazards), dated 21 November 2022.

Western Australia, Department of Health (WA DoH) (2021) Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia

Appendix A

# Figures

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ABN 47 065 475 149

0 50 100 150 200
Metres
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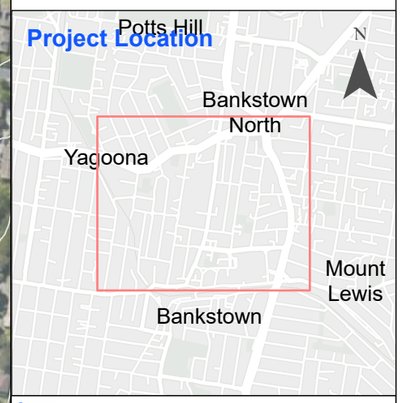
**LEGEND**

- Site Boundary
- Contours - 5m

**Project Location**




**Sources:**
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2. © Commonwealth of Australia (Geoscience Australia) 2021
3. Light Gray Base: Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
Australia latest: , Aerometrex Pty Ltd

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| **Figure No:** | 1 |
| **Figure Name:** | Site Locality |
| **Version:** | 1 |
| **Date:** | 3/02/2025 |
| **Created by:** | LL16284 |
| **Page Size:** | A3 |

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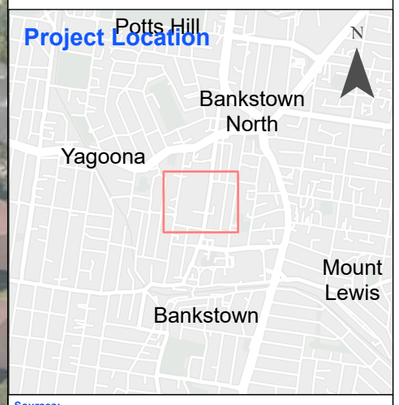
## LEGEND

- Site Boundary
- Monitoring Wells
- Test Pits
- Large Diameter Boreholes

## Project Location




**Sources:**
1. © State of New South Wales (Spatial Services, a business unit of the Department of Customer Service NSW).
2. © Commonwealth of Australia (Geoscience Australia) 2021
3. Light Gray Base: Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

Australia latest: Aerometrex Pty Ltd

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|---|---|
| **Project No:** | 30013640 |
| **Figure No:** | 2 |
| **Figure Name:** | Sample Locations |
| **Version:** | 1 |
| **Date:** | 3/02/2025 |
| **Created by:** | LL16284 |
| **Page Size:** | A3 |

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Metres

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## LEGEND

- Site Boundary
- Monitoring Wells
- Test Pits
- Large Diameter Boreholes
- JBS&G Sample location (approx.)
- Asbestos > HIL
- Asbestos (bonded) observed (<HIL)
- Lead > HIL

## Project Location

**Sources:**
1. © State of New South Wales (Spatial Services, a business unit of the Department of Customer Service NSW).
2. © Commonwealth of Australia (Geoscience Australia) 2021
3. Light Gray Base: Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
Australia latest: Aerometrex Pty Ltd

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| **Project No:** | 30013640 |
| **Figure No:** | 2 |
| **Figure Name:** | Health Exceedances |
| **Version:** | 3 |
| **Date:** | 3/02/2025 |
| **Created by:** | LL16284 |
| **Page Size:** | A3 |

Appendix B

# Extracts from Previous Reports

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

Job No: 58476

Client: Health Infrastructure

| Version: Aerials | Date 17/09/2020 |
|---|---|
| Drawn By: RH / JA | Checked By: MH |

Scale 1:2,500

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metres

Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 1943 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 1943**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_1943.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

Job No: 58476

Client: Health Infrastructure

| Version: Aerials | Date 17/09/2020 |
|---|---|
| Drawn By: RH / JA | Checked By: MH |

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Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 1956 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 1956**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_1956.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

Job No: 58476

Client: Health Infrastructure

| Version: Aerials | Date 17/09/2020 |
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| Drawn By: RH / JA | Checked By: MH |

Scale 1:2,500

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Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 1961 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 1961**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_1961.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

Job No: 58476

Client: Health Infrastructure

| Version: Aerials | Date 17/09/2020 |
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Scale 1:2,500

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Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 1975 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 1975**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_1975.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

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|---|---|
| Job No: 58476 | |
| Client: Health Infrastructure | |
| Version: Aerials | Date 17/09/2020 |
| Drawn By: RH / JA | Checked By: MH |
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metres

Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 1986 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 1986**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_1986.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

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| Job No: 58476 | |
| Client: Health Infrastructure | |
| Version: Aerials | Date 17/09/2020 |
| Drawn By: RH / JA | Checked By: MH |
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Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 1994 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 1994**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_1994.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

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| Job No: 58476 | |
| Client: Health Infrastructure | |
| Version: Aerials | Date 17/09/2020 |
| Drawn By: RH / JA | Checked By: MH |
| Scale 1:2,500 | |

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metres

Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 2002 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 2002**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_2002.mxd
Reference: NSW DFSI

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

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|---|---|
| Job No: 58476 | |
| Client: Health Infrastructure | |
| Version: Aerials | Date 17/09/2020 |
| Drawn By: RH / JA | Checked By: MH |
| Scale 1:2,500 | |

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metres

Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 2010 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 2010**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_2010.mxd
Reference: Nearmap (www.nearmap.com.au) 22-01-2010

Copy of Aerial photos from Attachment 5 of JBS&G (2021)

**Legend:**

Approximate Site Boundary: Site 16a - Bankstown TAFE

JBS&G

| | |
|---|---|
| Job No: 58476 | |
| Client: Health Infrastructure | |
| Version: Aerials | Date 17/09/2020 |
| Drawn By: RH / JA | Checked By: MH |
| Scale 1:2,500 | |

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metres

Coord. Sys. GDA 1994 MGA Zone 56

**New Bankstown Hospital DD, Bankstown, NSW**

**AERIALS 2020 - SITE 16A - BANKSTOWN TAFE**

**AERIALS 2020**

File Name: N:\Projects\Health Infrastructure\58476 - New Bankstown Hospital DD\GIS\Maps\Site 16a -Bankstown TAFE (L01)\Aerials\58476_2020.mxd
Reference: Nearmap (www.nearmap.com.au) 03-08-2020

**Tabble A: Soil Analytical Summary Table**
Project Number: 58476_TAFE
Project Name: Bankstown DD TAFE

| | | | | Metals & Metalloids | | | | | | | | TPHs (NEPC 1999) | | | | | TRHs (NEPC 2013) | | | | | | | BTEXN | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum of Total) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | C10-C40 (Sum of total) | F1 (C6-C10 minus BTEX) | F2 (C10-C16 less Naphthalene) | Benzene | Toluene | Ethylbenzene | Xylene (o) | Xylene (m & p) | Xylene Total | Naphthalene | Naphthalene - MAH |
| | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 5 | 5 | 5 | 0.1 | 5 | 5 | 20 | 20 | 50 | 50 | 50 | 20 | 50 | 100 | 100 | 100 | 20 | 50 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.1 | 0.5 |
| **CRC Care 2011 Table A4 Direct Contact Intrusive Maintenance Worker** | | | | | | | | | | | | | | | | | **82000** | **62000** | **85000** | **120000** | | | | **1100** | **120000** | **85000** | | | **130000** | **29000** | **29000** |
| **NEPM 2013 Table 1A(1) HILs Res A Soil** | | | | **100** | **20** | **100** | **6000** | **300** | **40** | **400** | **7400** | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **0-1m** | | | | | | | | | | | | | | | | | | | | | | **50** | **280** | **0.7** | **480** | **NL** | | | **110** | **5** | **5** |
| **NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space** | | | | **100** | | **190** | **60** | **1100** | | **30** | **70** | | | | | | | | | | | | | | | | | | | **170** | **170** |
| **NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil** | | | | | | | | | | | | | | | | | | | **1300** | **5600** | | **180** | **120** | **65** | **105** | **125** | | | **45** | | |
| **NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil** | | | | | | | | | | | | | | | | | **800** | **1000** | **3500** | **10000** | | | | | | | | | | | |
| **NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Location_Code** | **Sample ID** | **SampleCode** | **Sampled_Date_Time** | **Lab_Report_Number** | **Monitoring_Round** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S01 | S01_0.2 | S21-Jn00035 | 30/05/2021 | 799457 | TAFE | 16 | <0.4 | 18 | 53 | 8.8 | <0.1 | **43** | 48 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S01 | S01_AQ_0.15-0.25 | S21-Jn00036 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S02 | S02_0.2 | S21-Jn00038 | 30/05/2021 | 799457 | TAFE | 100 | <0.4 | 22 | 30 | 29 | 0.2 | **38** | 48 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S02 | S02_AQ_0.06-0.2 | S21-Jn00037 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S02 | S02_AQ_0.2-0.3 | S21-Jn00039 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S03 | S03_0.3 | S21-Jn00040 | 30/05/2021 | 799457 | TAFE | 3.4 | <0.4 | **290** | 47 | 7.4 | <0.1 | **220** | **99** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S03 | S03_AQ_0.16-0.27 | S21-Jn00041 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S04 | S04_0.2 | S21-Jn00042 | 30/05/2021 | 799457 | TAFE | 2.9 | <0.4 | **230** | 49 | 6.9 | <0.1 | **170** | **99** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S04 | S04_AQ_0.18-0.25 | S21-Jn00043 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S05 | S05_0.2 | S21-Jn00044 | 30/05/2021 | 799457 | TAFE | <2 | <0.4 | 27 | **87** | <5 | <0.1 | **110** | **72** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S05 | S05_0.5 | S21-Jn00046 | 30/05/2021 | 799457 | TAFE | 2.1 | <0.4 | 7.5 | **69** | <5 | <0.1 | 29 | 38 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S05 | S05_AQ_0.1-0.3 | S21-Jn00045 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S06 | S06_0.1 | S21-Jn00047 | 30/05/2021 | 799457 | TAFE | 11 | <0.4 | 19 | 30 | 74 | 0.2 | 17 | **99** | <20 | <20 | 79 | 67 | 146 | <20 | <50 | 170 | 150 | 320 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S06 | S06_AQ_0-0.3 | S21-Jn00048 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | QS02 | S21-Jn00081 | 30/05/2021 | 799457 | TAFE | <2 | <0.4 | 30 | **99** | <5 | <0.1 | **140** | **76** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S07 | QS02a | 270413-2 | | 270413 | | <4 | <0.4 | 8 | **70** | 2 | 0.1 | **78** | 30 | <25 | <50 | <100 | <100 | - | <25 | <50 | <100 | <100 | <50 | <25 | <50 | <0.2 | <0.5 | <1 | <1 | <2 | <3 | <0.1 | - |
| S07 | QSASB2 | S21-Jn00083 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | QSASB2a | 270413-5 | | 270413 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | S07_0.1 | S21-Jn00049 | 30/05/2021 | 799457 | TAFE | <2 | <0.4 | 40 | **84** | <5 | <0.1 | **150** | **88** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S07 | S07_AQ_0.06-0.3 | S21-Jn00050 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S08 | S08_0.1 | S21-Jn00051 | 30/05/2021 | 799457 | TAFE | <2 | <0.4 | 22 | **98** | <5 | <0.1 | **100** | **82** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S08 | S08_AQ_0.05-0.3 | S21-Jn00052 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S09 | S09_0.1 | S21-Jn00053 | 30/05/2021 | 799457 | TAFE | 8.3 | <0.4 | 20 | 16 | 55 | 0.3 | 6.6 | 62 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S09 | S09_0.5 | S21-Jn00055 | 30/05/2021 | 799457 | TAFE | 8 | <0.4 | 23 | 21 | 16 | <0.1 | 6.1 | 38 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S09 | S09_AQ_0-0.3 | S21-Jn00054 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | QS01 | S21-Jn00080 | 30/05/2021 | 799457 | TAFE | 4.5 | <0.4 | 12 | 44 | 160 | 0.2 | 5.5 | **180** | <20 | <20 | <50 | 64 | 64 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S11 | QS01a | 270413-1 | | 270413 | | 6 | <0.4 | 13 | 40 | 130 | 0.4 | 6 | **130** | <25 | <50 | <100 | <100 | - | <25 | <50 | <100 | <100 | <50 | <25 | <50 | <0.2 | <0.5 | <1 | <1 | <2 | <3 | <0.1 | - |
| S11 | QSAQ1 | S21-Jn00082 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | QSAQ1a | 270413-3 | | 270413 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | S11_0.1 | S21-Jn00056 | 30/05/2021 | 799457 | TAFE | 3.7 | <0.4 | 8.8 | 41 | 120 | 0.2 | <5 | **120** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S11 | S11_0.9 | S21-Jn00058 | 30/05/2021 | 799457 | TAFE | 3.5 | <0.4 | 12 | 35 | 46 | <0.1 | 7.8 | **110** | <20 | <20 | 65 | 73 | 138 | <20 | <50 | 120 | <100 | 120 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S11 | S11_AQ_0-0.7 | S21-Jn00057 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S12 | S12_0.5 | S21-Jn00060 | 30/05/2021 | 799457 | TAFE | 4.4 | <0.4 | 11 | **84** | 18 | <0.1 | **40** | 62 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S12 | S12_AQ_0.2-0.6 | S21-Jn00061 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S12 | S12_AQ_0-0.2 | S21-Jn00059 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S13 | S13_0.1 | S21-Jn00062 | 30/05/2021 | 799457 | TAFE | 3.2 | <0.4 | 8 | 39 | 110 | 0.2 | <5 | **110** | <20 | <20 | 86 | 84 | 170 | <20 | <50 | 150 | <100 | 150 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S13 | S13_0.7 | S21-Jn00064 | 30/05/2021 | 799457 | TAFE | 4 | <0.4 | 10 | 25 | 57 | <0.1 | 12 | 66 | <20 | <20 | 57 | 53 | 110 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S13 | S13_AQ_0-0.8 | S21-Jn00063 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S14 | S14_0.2 | S21-Jn00065 | 30/05/2021 | 799457 | TAFE | 11 | <0.4 | 25 | 42 | 23 | <0.1 | 24 | **86** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S15 | S15_0.3 | S21-Jn00066 | 30/05/2021 | 799457 | TAFE | 5.8 | <0.4 | 22 | 32 | 19 | <0.1 | **42** | 56 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S15 | S15_AQ_0.15-0.55 | S21-Jn00067 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S16 | S16_0.3 | S21-Jn00068 | 30/05/2021 | 799457 | TAFE | 3.8 | <0.4 | 6.6 | 26 | 13 | <0.1 | <5 | 23 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S17 | S17_0.1 | S21-Jn00069 | 30/05/2021 | 799457 | TAFE | 3.3 | <0.4 | 31 | **97** | 16 | <0.1 | **93** | **93** | <20 | <20 | <50 | 71 | 71 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S17 | S17_AQ_0.05-0.35 | S21-Jn00070 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S18 | S18_0.2 | S21-Jn00071 | 30/05/2021 | 799457 | TAFE | 12 | <0.4 | 34 | 38 | 120 | 0.5 | 26 | **170** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S19 | S19_0.1 | S21-Jn00072 | 30/05/2021 | 799457 | TAFE | 6.3 | <0.4 | 22 | 27 | 21 | <0.1 | 16 | **87** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S20 | S20_0.3 | S21-Jn00073 | 30/05/2021 | 799457 | TAFE | 5.8 | <0.4 | 15 | 22 | 14 | <0.1 | <5 | 30 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S21 | S21_0.9 | S21-Jn00075 | 30/05/2021 | 799457 | TAFE | 7.4 | <0.4 | 26 | 47 | 21 | <0.1 | 9.7 | 60 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S21 | S21_AQ_0.15-0.5 | S21-Jn00074 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S23 | S23_0.4 | S21-Jn00076 | 30/05/2021 | 799457 | TAFE | 7.6 | <0.4 | 20 | 40 | **1500** | 0.3 | 15 | **670** | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | - | <0.5 |
| S23 | S23_AQ_0.15-0.5 | S21-Jn00077 | 30/05/2021 | 799457 | TAFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Statistical Summary** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Results | | | | | | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 27 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 2 | 27 |
| Number of Detects | | | | | | 24 | 0 | 29 | 29 | 24 | 10 | 25 | 29 | 0 | 0 | 4 | 6 | 6 | 0 | 0 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minimum Concentration | | | | | | <2 | <0.4 | 6.6 | 16 | 2 | <0.1 | <5 | 23 | <20 | <20 | <50 | <50 | <50 | <20 | <50 | <100 | <100 | <50 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.1 | <0.5 |
| Minimum Detect | | | | | | 2.1 | ND | 6.6 | 16 | 2 | 0.1 | 5.5 | 23 | ND | ND | 57 | 53 | 64 | ND | ND | 120 | 150 | 120 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Maximum Concentration | | | | | | 100 | <0.4 | 290 | 99 | 1500 | 0.5 | 220 | 670 | <25 | <50 | <100 | <100 | 170 | <25 | <50 | 170 | 150 | 320 | <25 | <50 | <0.2 | <0.5 | <1 | <1 | <2 | <3 | <0.1 | <0.5 |
| Maximum Detect | | | | | | 100 | ND | 290 | 99 | 1500 | 0.5 | 220 | 670 | ND | ND | 86 | 84 | 170 | ND | ND | 170 | 150 | 320 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Average Concentration | | | | | | 8.6 | 0.2 | 36 | 49 | 90 | 0.12 | 49 | 101 | 10 | 11 | 33 | 36 | 45 | 10 | 25 | 60 | 53 | 63 | 10 | 25 | 0.053 | 0.064 | 0.081 | 0.081 | 0.16 | 0.24 | | 0.25 |
| Median Concentration | | | | | | 4.4 | 0.2 | 20 | 41 | 19 | 0.05 | 24 | 82 | 10 | 10 | 25 | 25 | 25 | 10 | 25 | 50 | 50 | 50 | 10 | 25 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.15 | 0.05 | 0.25 |
| Standard Deviation | | | | | | 18 | 0 | 63 | 25 | 275 | 0.12 | 59 | 116 | 0.64 | 3.9 | 17 | 19 | 43 | 0.64 | 0 | 31 | 19 | 55 | 0.64 | 0 | 0.013 | 0.052 | 0.12 | 0.12 | 0.23 | 0.35 | | 0 |
| Number of Guideline Exceedances | | | | | | 0 | 0 | 2 | 8 | 1 | 0 | 12 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Guideline Exceedances(Detects Only) | | | | | | 0 | 0 | 2 | 8 | 1 | 0 | 12 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Tabble A: Soil Analytical Summary Table**
Project Number: 58476_TAFE
Project Name: Bankstown DD TAFE

| | | | | | | | PAH | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Acenaphthene | Acenaphthylene | Anthracene | Benz[a]anthracene | Benzo(a) pyrene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Benzo(b+j+k)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | D.Benz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene - PAH | Phenanthrene | Pyrene | PAHs (Sum of total) |
| | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| **CRC Care 2011 Table A4 Direct Contact Intrusive Maintenance Worker** | | | | | | | | | | | | | | | | | | | | | | | **29000** | | | |
| **NEPM 2013 Table 1A(1) HILs Res A Soil** | | | | | | | | | | | | **3** | **3** | **3** | | | | | | | | | | | | **300** |
| **NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **0-1m** | | | | | | | | | | | | | | | | | | | | | | | **5** | | | |
| **NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space** | | | | | | | | | | | | | | | | | | | | | | | **170** | | | |
| **NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil** | | | | | | | | | | | **0.7** | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Location_Code** | **Sample ID** | **SampleCode** | **Sampled_Date_Time** | **Lab_Report_Number** | **Monitoring_Round** | | | | | | | | | | | | | | | | | | | | | |
| S01 | S01_0.2 | S21-Jn00035 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S01 | S01_AQ_0.15-0.25 | S21-Jn00036 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S02 | S02_0.2 | S21-Jn00038 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S02 | S02_AQ_0.06-0.2 | S21-Jn00037 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S02 | S02_AQ_0.2-0.3 | S21-Jn00039 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S03 | S03_0.3 | S21-Jn00040 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S03 | S03_AQ_0.16-0.27 | S21-Jn00041 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S04 | S04_0.2 | S21-Jn00042 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S04 | S04_AQ_0.18-0.25 | S21-Jn00043 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S05 | S05_0.2 | S21-Jn00044 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S05 | S05_0.5 | S21-Jn00046 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S05 | S05_AQ_0.1-0.3 | S21-Jn00045 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S06 | S06_0.1 | S21-Jn00047 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S06 | S06_AQ_0-0.3 | S21-Jn00048 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | QS02 | S21-Jn00081 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S07 | QS02a | 270413-2 | | 270413 | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.05 | <0.5 | <0.5 | <0.5 | - | <0.2 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.05 |
| S07 | QSASB2 | S21-Jn00083 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | QSASB2a | 270413-5 | | 270413 | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | S07_0.1 | S21-Jn00049 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S07 | S07_AQ_0.06-0.3 | S21-Jn00050 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S08 | S08_0.1 | S21-Jn00051 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S08 | S08_AQ_0.05-0.3 | S21-Jn00052 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S09 | S09_0.1 | S21-Jn00053 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S09 | S09_0.5 | S21-Jn00055 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S09 | S09_AQ_0-0.3 | S21-Jn00054 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | QS01 | S21-Jn00080 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S11 | QS01a | 270413-1 | | 270413 | | | <0.1 | <0.1 | 0.4 | 1.3 | **0.98** | 1.5 | 1.5 | 1.5 | - | 1 | 0.6 | - | 1.2 | 0.1 | 2 | <0.1 | 0.4 | - | 1.7 | 2.5 | 13 |
| S11 | QSAQ1 | S21-Jn00082 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | QSAQ1a | 270413-3 | | 270413 | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | S11_0.1 | S21-Jn00056 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 1.1 |
| S11 | S11_0.9 | S21-Jn00058 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S11 | S11_AQ_0-0.7 | S21-Jn00057 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S12 | S12_0.5 | S21-Jn00060 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S12 | S12_AQ_0.2-0.6 | S21-Jn00061 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S12 | S12_AQ_0-0.2 | S21-Jn00059 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S13 | S13_0.1 | S21-Jn00062 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | 1.3 |
| S13 | S13_0.7 | S21-Jn00064 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S13 | S13_AQ_0-0.8 | S21-Jn00063 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S14 | S14_0.2 | S21-Jn00065 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S15 | S15_0.3 | S21-Jn00066 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S15 | S15_AQ_0.15-0.55 | S21-Jn00067 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S16 | S16_0.3 | S21-Jn00068 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S17 | S17_0.1 | S21-Jn00069 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S17 | S17_AQ_0.05-0.35 | S21-Jn00070 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S18 | S18_0.2 | S21-Jn00071 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S19 | S19_0.1 | S21-Jn00072 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S20 | S20_0.3 | S21-Jn00073 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S21 | S21_0.9 | S21-Jn00075 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S21 | S21_AQ_0.15-0.5 | S21-Jn00074 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S23 | S23_0.4 | S21-Jn00076 | 30/05/2021 | 799457 | TAFE | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 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 |
| S23 | S23_AQ_0.15-0.5 | S21-Jn00077 | 30/05/2021 | 799457 | TAFE | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Statistical Summary** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Results | | | | | | | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 27 | 2 | 29 | 27 | 29 | 29 | 29 | 29 | 29 | 27 | 29 | 29 | 29 |
| Number of Detects | | | | | | | 0 | 0 | 1 | 1 | 1 | 28 | 28 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 3 | 0 | 1 | 0 | 1 | 3 | 3 |
| Minimum Concentration | | | | | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.05 | <0.5 | <0.5 | <0.5 | <0.5 | <0.2 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.05 |
| Minimum Detect | | | | | | | ND | ND | 0.4 | 1.3 | 0.98 | 1.2 | 0.6 | 1.5 | ND | 1 | 0.6 | ND | 1.2 | 0.1 | 0.5 | ND | 0.4 | ND | 1.7 | 0.6 | 1.1 |
| Maximum Concentration | | | | | | | <0.5 | <0.5 | <0.5 | 1.3 | 0.98 | 1.5 | 1.5 | 1.5 | <0.5 | 1 | 0.6 | <0.5 | 1.2 | <0.5 | 2 | <0.5 | <0.5 | <0.5 | 1.7 | 2.5 | 13 |
| Maximum Detect | | | | | | | ND | ND | 0.4 | 1.3 | 0.98 | 1.5 | 1.5 | 1.5 | ND | 1 | 0.6 | ND | 1.2 | 0.1 | 2 | ND | 0.4 | ND | 1.7 | 2.5 | 13 |
| Average Concentration | | | | | | | 0.24 | 0.24 | 0.25 | 0.28 | 0.27 | 1.2 | 0.62 | 0.29 | 0.25 | | 0.26 | 0.25 | 0.28 | 0.24 | 0.32 | 0.24 | 0.25 | 0.25 | 0.29 | 0.35 | 0.75 |
| Median Concentration | | | | | | | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 1.2 | 0.6 | 0.25 | 0.25 | 0.55 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Standard Deviation | | | | | | | 0.052 | 0.052 | 0.047 | 0.2 | 0.14 | 0.19 | 0.18 | 0.23 | 0 | | 0.076 | 0 | 0.18 | 0.046 | 0.33 | 0.052 | 0.047 | 0 | 0.27 | 0.43 | 2.4 |
| Number of Guideline Exceedances | | | | | | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Guideline Exceedances(Detects Only) | | | | | | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Tabble A: Soil Analytical Summary Table**
Project Number: 58476_TAFE
Project Name: Bankstown DD TAFE

| | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | Polychlorinated Biphenyls | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 4,4-DDE | a-BHC | b-BHC | d-BHC | g-BHC (Lindane) | Aldrin | Dieldrin | Aldrin + Dieldrin | Chlordane | Chlordane (cis) | Chlordane (trans) | DDT | DDD | DDD+DDE+DDD | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | Heptachlor | Heptachlor Epoxide | Methoxychlor | Toxaphene | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | PCBs (Sum of total) |
| | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 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 | 0.2 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| **CRC Care 2011 Table A4 Direct Contact Intrusive Maintenance Worker** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1A(1) HILs Res A Soil** | | | | | | | | | | | | | | | | | | 6 | 50 | | | | | 240 | | | | 10 | | | 6 | | 300 | 20 | | | | | | | 1 |
| **NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **0-1m** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space** | | | | | | | | | | | | | | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Location_Code** | **Sample ID** | **SampleCode** | **Sampled_Date_Time** | **Lab_Report_Number** | **Monitoring_Round** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S01 | S01_0.2 | S21-Jn00035 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S01 | S01_AQ_0.15-0.25 | S21-Jn00036 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S02 | S02_0.2 | S21-Jn00038 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S02 | S02_AQ_0.06-0.2 | S21-Jn00037 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S02 | S02_AQ_0.2-0.3 | S21-Jn00039 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S03 | S03_0.3 | S21-Jn00040 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S03 | S03_AQ_0.16-0.27 | S21-Jn00041 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S04 | S04_0.2 | S21-Jn00042 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S04 | S04_AQ_0.18-0.25 | S21-Jn00043 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S05 | S05_0.2 | S21-Jn00044 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S05 | S05_0.5 | S21-Jn00046 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S05 | S05_AQ_0.1-0.3 | S21-Jn00045 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S06 | S06_0.1 | S21-Jn00047 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S06 | S06_AQ_0-0.3 | S21-Jn00048 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | QS02 | S21-Jn00081 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S07 | QS02a | 270413-2 | | 270413 | | | | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| S07 | QSASB2 | S21-Jn00083 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | QSASB2a | 270413-5 | | 270413 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S07 | S07_0.1 | S21-Jn00049 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S07 | S07_AQ_0.06-0.3 | S21-Jn00050 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S08 | S08_0.1 | S21-Jn00051 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S08 | S08_AQ_0.05-0.3 | S21-Jn00052 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S09 | S09_0.1 | S21-Jn00053 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S09 | S09_0.5 | S21-Jn00055 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S09 | S09_AQ_0-0.3 | S21-Jn00054 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | QS01 | S21-Jn00080 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S11 | QS01a | 270413-1 | | 270413 | | | | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| S11 | QSAQ1 | S21-Jn00082 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | QSAQ1a | 270413-3 | | 270413 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S11 | S11_0.1 | S21-Jn00056 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S11 | S11_0.9 | S21-Jn00058 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S11 | S11_AQ_0-0.7 | S21-Jn00057 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S12 | S12_0.5 | S21-Jn00060 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S12 | S12_AQ_0.2-0.6 | S21-Jn00061 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S12 | S12_AQ_0-0.2 | S21-Jn00059 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S13 | S13_0.1 | S21-Jn00062 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S13 | S13_0.7 | S21-Jn00064 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S13 | S13_AQ_0-0.8 | S21-Jn00063 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S14 | S14_0.2 | S21-Jn00065 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S15 | S15_0.3 | S21-Jn00066 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S15 | S15_AQ_0.15-0.55 | S21-Jn00067 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S16 | S16_0.3 | S21-Jn00068 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S17 | S17_0.1 | S21-Jn00069 | 30/05/2021 | 799457 | TAFE | | | | | <0.5 | <0.5 | <0.5 | <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 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| S17 | S17_AQ_0.05-0.35 | S21-Jn00070 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S18 | S18_0.2 | S21-Jn00071 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S19 | S19_0.1 | S21-Jn00072 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S20 | S20_0.3 | S21-Jn00073 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S21 | S21_0.9 | S21-Jn00075 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S21 | S21_AQ_0.15-0.5 | S21-Jn00074 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| S23 | S23_0.4 | S21-Jn00076 | 30/05/2021 | 799457 | TAFE | | | | | <0.05 | <0.05 | <0.05 | <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 | <0.2 | <0.1 | <0.5 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| S23 | S23_AQ_0.15-0.5 | S21-Jn00077 | 30/05/2021 | 799457 | TAFE | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Statistical Summary** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Results | | | | | | | | | | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 27 | 27 | 2 | 2 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 27 | 29 | 29 | 27 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| Number of Detects | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minimum Concentration | | | | | | | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <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 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Minimum Detect | | | | | | | | | | ND | ND | ND | ND | ND | ND | 0.05 | 0.05 | 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 | | | | | | | | | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <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 | <0.5 | <0.5 | <10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Maximum Detect | | | | | | | | | | ND | ND | ND | ND | ND | ND | 0.1 | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Average Concentration | | | | | | | | | | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.23 | | | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.11 | 0.11 | 0.15 | 2.1 | 0.33 | 0.22 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Median Concentration | | | | | | | | | | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.05 | 0.05 | 0.05 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.1 | 0.05 | 0.25 | 0.05 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Standard Deviation | | | | | | | | | | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.23 | | | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.078 | 2.5 | 0.14 | 0.22 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Number of Guideline Exceedances | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Guideline Exceedances(Detects Only) | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Tabble A: Soil Analytical Summary Table**
Project Number: 58476_TAFE
Project Name: Bankstown DD TAFE

| | Chlorinated Benzenes | PA VIC - IWRG62 | | Asbestos - Eurofins | | | | | | | | | | | | | | | | | | Asbestos - Envirolab | | | | Moisture Content | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hexachlorobenzene | Organochlorine Pesticides EPAVic | Other Organochlorine Pesticides EPAVic | Approximate Sample Mass | Mass ACM | Mass Asbestos in ACM | Asbestos from ACM in Soil | Mass FA | Mass Asbestos in FA | Mass AF | Mass asbestos in AF | Asbestos from FA & AF in Soil | Mass Asbestos in FA & AF | ACM - Comment | FA- Comment | AF - Comment | Organic Fibres - Comment | Respirable Fibres - Comment | Synthetic Fibres - Comment | Asbestos Reported Result | Asbestos ID in Soil | Total Asbestos | Asbestos (ACM >7mm) Estimation | Asbestos in soil (<2mm AF/FA) (%w/w) | Moisture Content | Moisture Content (dried @ 103°C) |
| | mg/kg | mg/kg | mg/kg | gm | gm | gm | % (w/w) | gm | gm | gm | gm | % (w/w) | gm | Comment | Comment | Comment | Comment | Comment | Comment | Comment | g/kg | g/kg | % (w/w) | % (w/w) | % | % |
| EQL | 0.05 | 0.1 | 0.1 | | | | | | | | | | | | | | | | | | | 0.1 | 0.01 | 0.001 | 0.1 | 1 |
| **CRC Care 2011 Table A4 Direct Contact Intrusive Maintenance Worker** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1A(1) HILs Res A Soil** | **10** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **0-1m** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil** | | | | | | | **0.01** | | | | | **0.001** | | | | | | | | | | | **0.01** | **0.001** | | | |
| **Location_Code** | **Sample ID** | **SampleCode** | **Sampled_Date_Time** | **Lab_Report_Number** | **Monitoring_Round** | | | | | | | | | | | | | | | | | | | | | | | |
| S01 | S01_0.2 | S21-Jn00035 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 |
| S01 | S01_AQ_0.15-0.25 | S21-Jn00036 | 30/05/2021 | 799457 | TAFE | - | - | - | 752 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S02 | S02_0.2 | S21-Jn00038 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.9 |
| S02 | S02_AQ_0.06-0.2 | S21-Jn00037 | 30/05/2021 | 799457 | TAFE | - | - | - | 699 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S02 | S02_AQ_0.2-0.3 | S21-Jn00039 | 30/05/2021 | 799457 | TAFE | - | - | - | 650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S03 | S03_0.3 | S21-Jn00040 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| S03 | S03_AQ_0.16-0.27 | S21-Jn00041 | 30/05/2021 | 799457 | TAFE | - | - | - | 635 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S04 | S04_0.2 | S21-Jn00042 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| S04 | S04_AQ_0.18-0.25 | S21-Jn00043 | 30/05/2021 | 799457 | TAFE | - | - | - | 733 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S05 | S05_0.2 | S21-Jn00044 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.8 |
| S05 | S05_0.5 | S21-Jn00046 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.8 |
| S05 | S05_AQ_0.1-0.3 | S21-Jn00045 | 30/05/2021 | 799457 | TAFE | - | - | - | 945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S06 | S06_0.1 | S21-Jn00047 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 |
| S06 | S06_AQ_0-0.3 | S21-Jn00048 | 30/05/2021 | 799457 | TAFE | - | - | - | 432 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S07 | QS02 | S21-Jn00081 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 |
| S07 | QS02a | 270413-2 | | 270413 | | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 | - |
| S07 | QSASB2 | S21-Jn00083 | 30/05/2021 | 799457 | TAFE | - | - | - | 1071 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S07 | QSASB2a | 270413-5 | | 270413 | | | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | <0.1 | <0.01 | <0.001 | - | - |
| S07 | S07_0.1 | S21-Jn00049 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | - | - | - | - | - | 3.1 |
| S07 | S07_AQ_0.06-0.3 | S21-Jn00050 | 30/05/2021 | 799457 | TAFE | - | - | - | 1026 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S08 | S08_0.1 | S21-Jn00051 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.3 |
| S08 | S08_AQ_0.05-0.3 | S21-Jn00052 | 30/05/2021 | 799457 | TAFE | - | - | - | 1009 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S09 | S09_0.1 | S21-Jn00053 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.2 |
| S09 | S09_0.5 | S21-Jn00055 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 |
| S09 | S09_AQ_0-0.3 | S21-Jn00054 | 30/05/2021 | 799457 | TAFE | - | - | - | 564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S11 | QS01 | S21-Jn00080 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.1 |
| S11 | QS01a | 270413-1 | | 270413 | | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.7 | - |
| S11 | QSAQ1 | S21-Jn00082 | 30/05/2021 | 799457 | TAFE | - | - | - | 645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S11 | QSAQ1a | 270413-3 | | 270413 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | <0.1 | <0.01 | <0.001 | - | - |
| S11 | S11_0.1 | S21-Jn00056 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 |
| S11 | S11_0.9 | S21-Jn00058 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 |
| S11 | S11_AQ_0-0.7 | S21-Jn00057 | 30/05/2021 | 799457 | TAFE | - | - | - | 656 | 7.5318 | 0.7532 | **0.1148** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S12 | S12_0.5 | S21-Jn00060 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.4 |
| S12 | S12_AQ_0.2-0.6 | S21-Jn00061 | 30/05/2021 | 799457 | TAFE | - | - | - | 920 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S12 | S12_AQ_0-0.2 | S21-Jn00059 | 30/05/2021 | 799457 | TAFE | - | - | - | 537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S13 | S13_0.1 | S21-Jn00062 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.5 |
| S13 | S13_0.7 | S21-Jn00064 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| S13 | S13_AQ_0-0.8 | S21-Jn00063 | 30/05/2021 | 799457 | TAFE | - | - | - | 622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S14 | S14_0.2 | S21-Jn00065 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 |
| S15 | S15_0.3 | S21-Jn00066 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| S15 | S15_AQ_0.15-0.55 | S21-Jn00067 | 30/05/2021 | 799457 | TAFE | - | - | - | 648 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S16 | S16_0.3 | S21-Jn00068 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| S17 | S17_0.1 | S21-Jn00069 | 30/05/2021 | 799457 | TAFE | <0.5 | <1 | <1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| S17 | S17_AQ_0.05-0.35 | S21-Jn00070 | 30/05/2021 | 799457 | TAFE | - | - | - | 1027 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S18 | S18_0.2 | S21-Jn00071 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 |
| S19 | S19_0.1 | S21-Jn00072 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 |
| S20 | S20_0.3 | S21-Jn00073 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 |
| S21 | S21_0.9 | S21-Jn00075 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| S21 | S21_AQ_0.15-0.5 | S21-Jn00074 | 30/05/2021 | 799457 | TAFE | - | - | - | 995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| S23 | S23_0.4 | S21-Jn00076 | 30/05/2021 | 799457 | TAFE | <0.05 | <0.2 | <0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 |
| S23 | S23_AQ_0.15-0.5 | S21-Jn00077 | 30/05/2021 | 799457 | TAFE | - | - | - | 594 | 0 | 0 | 0 | 0.0052 | 0.0047 | 0 | 0 | 0.0008 | 0.0047 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| **Statistical Summary** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Results | 29 | 27 | 27 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 2 | 2 | 2 | 2 | 2 | 27 |
| Number of Detects | 0 | 0 | 0 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 2 | 0 | 0 | 0 | 2 | 27 |
| Minimum Concentration | <0.05 | <0.2 | <0.2 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | <0.1 | <0.01 | <0.001 | 4.8 | 3.1 |
| Minimum Detect | ND | ND | ND | 68 | 7.5318 | 0.7532 | 0.1148 | 0.0052 | 0.0047 | ND | ND | 0.0008 | 0.0047 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ND | ND | ND | ND | 4.8 | 3.1 |
| Maximum Concentration | <0.5 | <1 | <1 | 1071 | 7.5318 | 0.7532 | 0.1148 | 0.0052 | 0.0047 | 0 | 0 | 0.0008 | 0.0047 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | <0.1 | <0.01 | <0.001 | 7.7 | 25 |
| Maximum Detect | ND | ND | ND | 1071 | 7.5318 | 0.7532 | 0.1148 | 0.0052 | 0.0047 | ND | ND | 0.0008 | 0.0047 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ND | ND | ND | ND | 7.7 | 25 |
| Average Concentration | 0.11 | 0.26 | 0.26 | 725 | 0.36 | 0.036 | 0.0055 | 0.00025 | 0.00022 | 0 | 0 | 0.000038 | 0.00022 | 1 | 1 | 1 | 1 | 0.95 | 1 | 1 | | | | | | 11 |
| Median Concentration | 0.025 | 0.1 | 0.1 | 656 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0.05 | 0.005 | 0.0005 | 6.25 | 10 |
| Standard Deviation | 0.11 | 0.2 | 0.2 | 243 | 1.6 | 0.16 | 0.025 | 0.0011 | 0.001 | 0 | 0 | 0.00017 | 0.001 | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 | | | | | | 5.4 |
| Number of Guideline Exceedances | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Guideline Exceedances(Detects Only) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Appendix C

# Photographic Log

# Field Site Notes

## Inspection Details

| | |
|---|---|
| **Inspection Name** | Bankstown New Hospital |
| **Inspection ID** | Site Inspection |
| **Inspector** | |
| **Date** | 2024-11-18 |
| **Time** | 09:04 |
| **General Photos** | |

## General Comments

## Notes

| Location | Reference | Comment | Photos |
|---|---|---|---|
| | | Gate 3 observation to the North of the Site | 1 - 2 |
| -33.73649, 151.03127 | | Northern carpark, north of Building D | 3 - 8 |
| -33.73683, 151.03219 | Retaining wall, north of Building D | | 9 - 14 |
| -33.73687, 151.03199 | | Building D | 15 - 16 |
| -33.73831, 151.03467 | | Carpark to the south of Building D | 17 - 20 |
| | | Garden, seating and courtyard area to the east of Building C | 21 - 35 |
| | | Car ramp to the northwest of Building C, connecting the staff car parks. | 36 - 40 |
| | | Retaking wall and vegetation fill to the north of Building C | 41 - 43 |
| | | Carpark and grassed seating area to the west of Building C | 44 - 51 |
| | | Retaining wall to the north of Building C | 52 |
| | | Staff carpark to the west of Building A | 53 |
| | | Footbridge connecting Building C and Building A | 54 |
| | | Entrance via Gate N | 55 - 56 |
| | | Central grassed seating area | 57 - 59 |
| | | Car park to the west of Building J | 60 - 63 |
| | | Energy Australia transformer | 64 - 65 |
| | | Garbage area to the west of Building A | 66 - 68 |
| | | Building G | 69 - 70 |
| -33.79604, 151.17786 | | Building J and E, with courtyard within the centre of the buildings | 71 - 77 |
| | | Garden area to the east of Building E | 78 - 79 |
| | | Backup generator and fuel storage to the east of Building E | 80 - 82 |
| -33.78962, 151.18063 | | Storage and delivery receiving area, former maintenance storage area | 83 - 86 |
| -33.79899, 151.18128 | | Foot entrance into the TAFE | 87 |
| -33.79782, 151.18091 | | Student carpark to the south of the Site | 88 - 95 |

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.79991, 151.18098 | | Childcare centre (Building L) to the southeast of the Site | 96 - 98 |
| -33.81115, 151.18169 | | Sustainable Salons bins within Building D, used to dispose of unused bleaches and dyes | 99 - 100 |
| | | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D | 101 - 109 |
| | | Cleaning products within the cleaners room within Building D | 110 - 112 |

| Photo 1 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:46:58 am |
| **Location** | |
| **Reference** | |
| **Comment** | Gate 3 observation to the North of the Site |

| Photo 2 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:04 am |
| **Location** | |
| **Reference** | |
| **Comment** | Gate 3 observation to the North of the Site |

| Photo 3 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:06 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 4 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:29 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

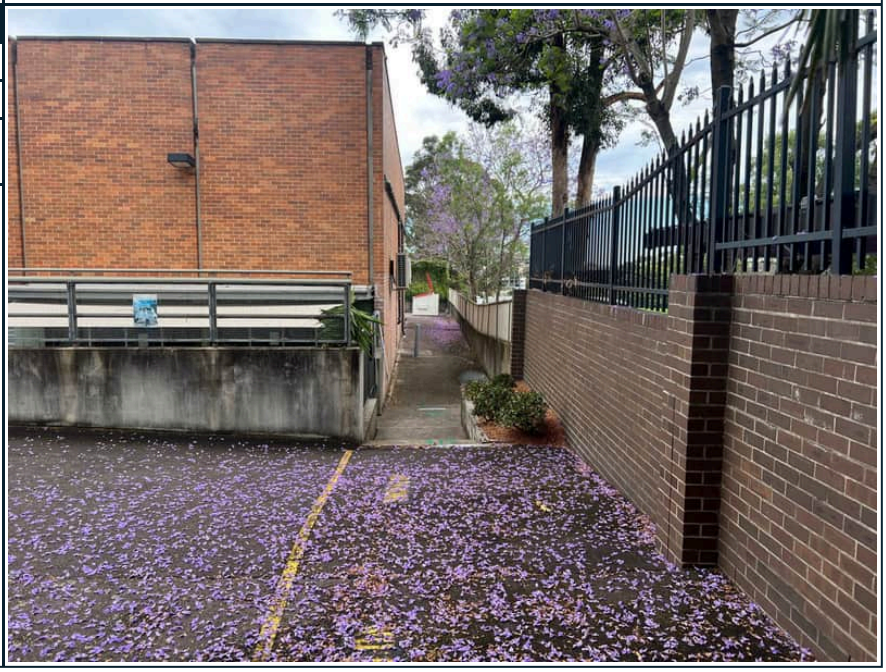
| Photo 5 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:53 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 6 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:48:17 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 7 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:55 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 8 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:17 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 9 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:48:31 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

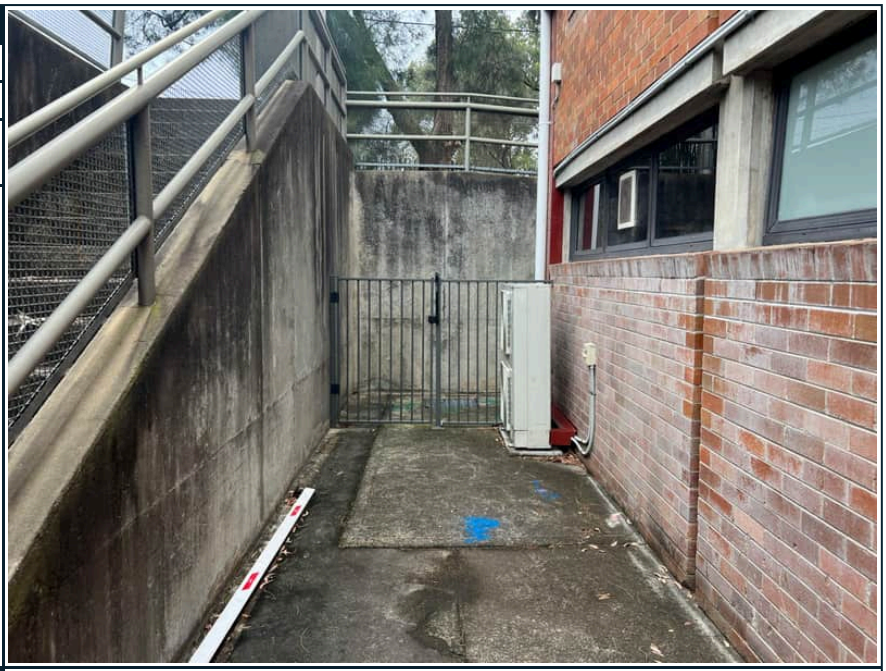


| Photo 10 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:09 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

| Photo 11 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:11 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

| Photo 12 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:33 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

| Photo 13 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:35 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |



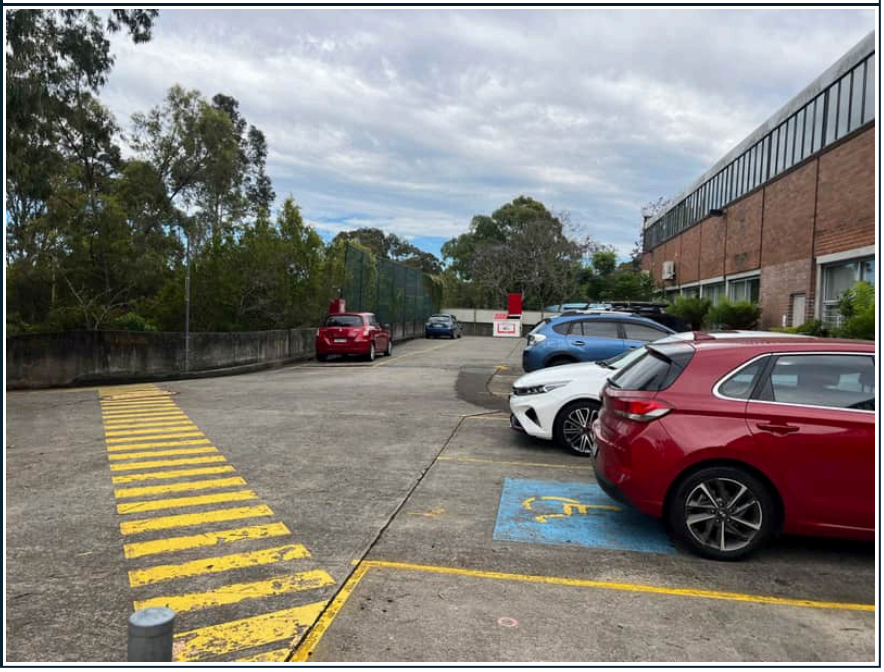
| Photo 14 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:20 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

| Photo 15 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:14 am |
| **Location** | -33.73687, 151.03199 |
| **Reference** | |
| **Comment** | Building D |

| Photo 16 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:42 am |
| **Location** | -33.73687, 151.03199 |
| **Reference** | |
| **Comment** | Building D |

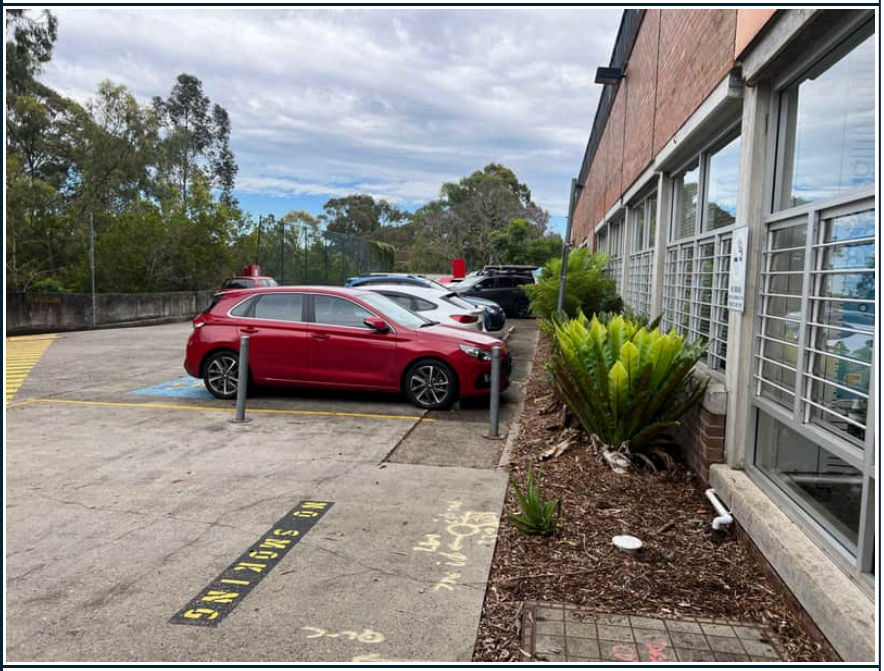
| Photo 17 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:46 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |

| Photo 18 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:18 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |



| Photo 19 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:39 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |

| Photo 20 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:13 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |




| Photo 21 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:32 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 22 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:27 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 23 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:34 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 24 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:06:47 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 25 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:06:50 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 26 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:06:52 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

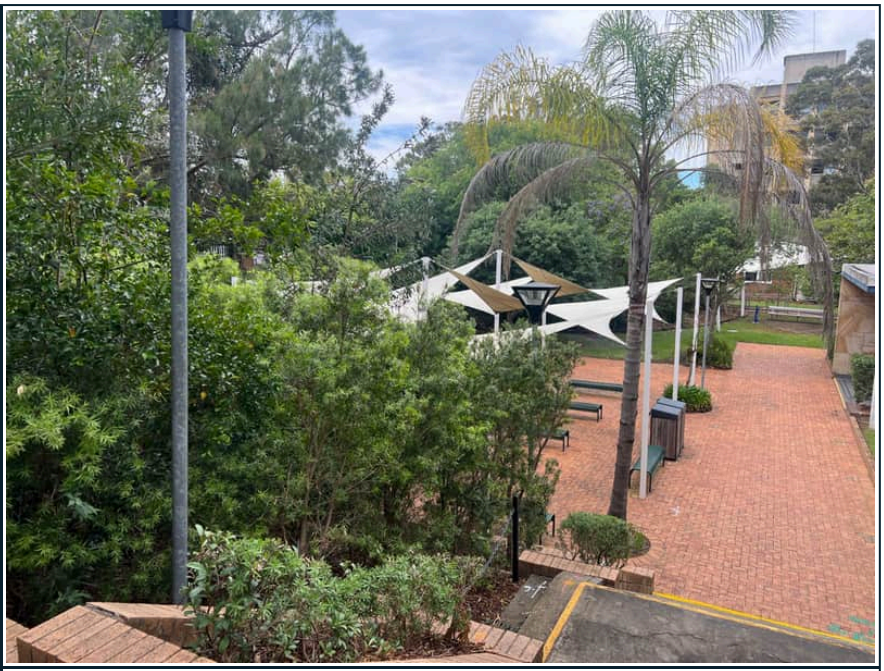
| Photo 27 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:23 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 28 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:24 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 29 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:25 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 30 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:28 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

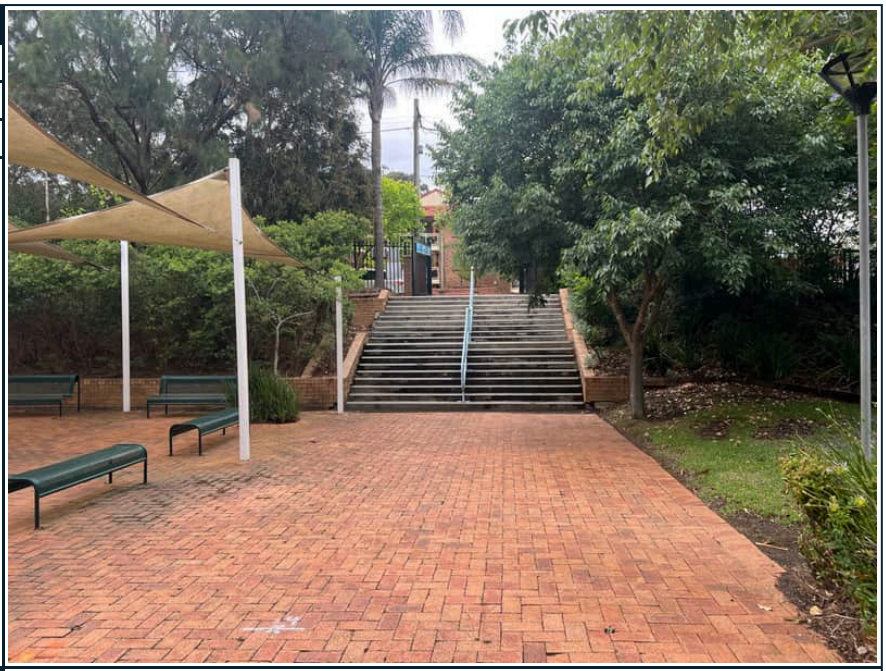
| Photo 31 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:29 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |



| Photo 32 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 33 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:10:07 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 34 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:10:08 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |



| Photo 35 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:10:10 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 36 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:40 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

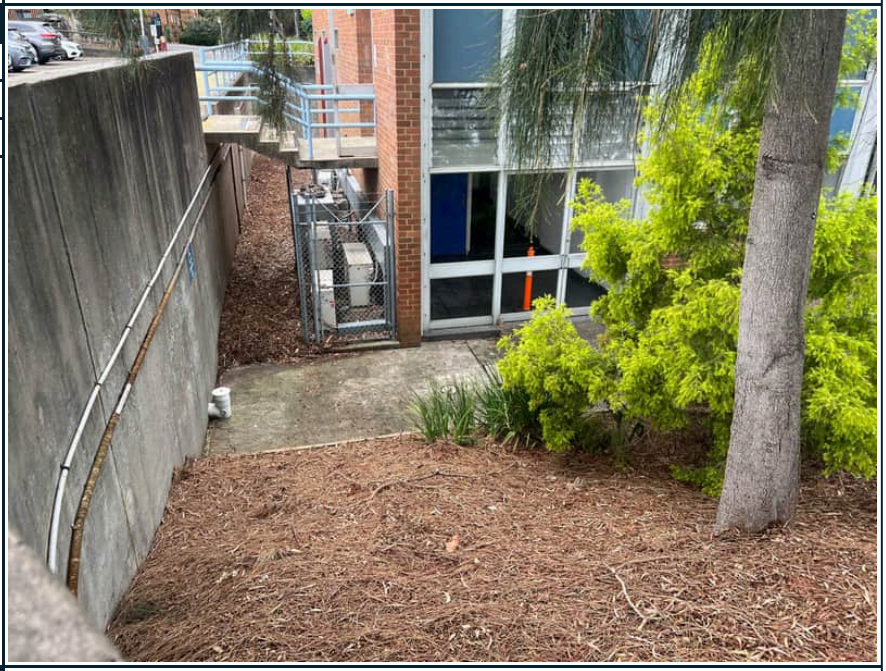
| Photo 37 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:41 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 38 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:42 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 39 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:44 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 40 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:46 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 41 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:51 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaking wall and vegetation fill to the north of Building C |



| Photo 42 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:52 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaking wall and vegetation fill to the north of Building C |

| Photo 43 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:17:02 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaking wall and vegetation fill to the north of Building C |

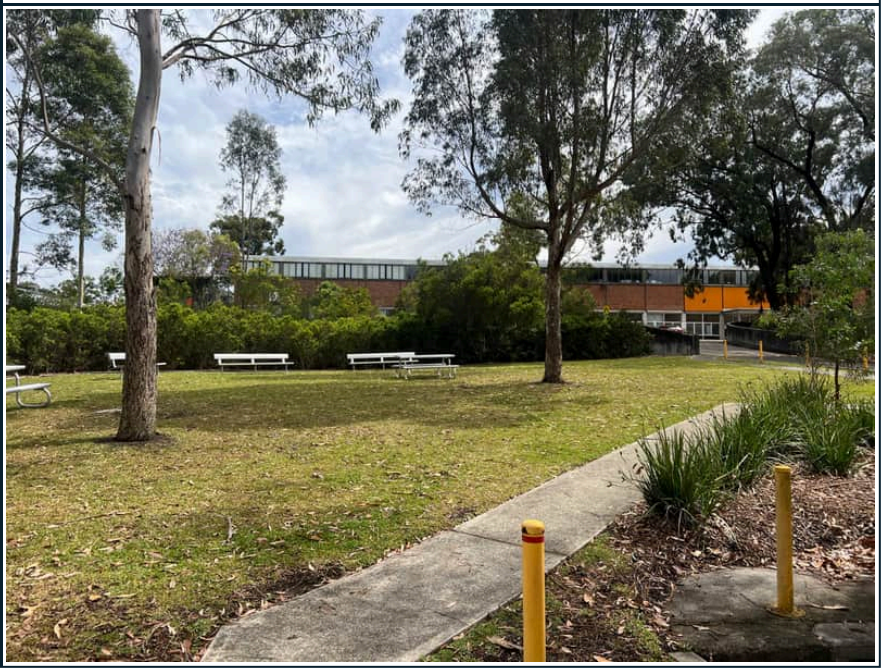
| Photo 44 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:18:53 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 45 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:18:54 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 46 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:18:58 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 47 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:06 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 48 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:12 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |



| Photo 49 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:29 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 50 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 51 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:31 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 52 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:32 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaining wall to the north of Building C |

| Photo 53 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:20:28 am |
| **Location** | |
| **Reference** | |
| **Comment** | Staff carpark to the west of Building A |

| Photo 54 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:20:31 am |
| **Location** | |
| **Reference** | |
| **Comment** | Footbridge connecting Building C and Building A |

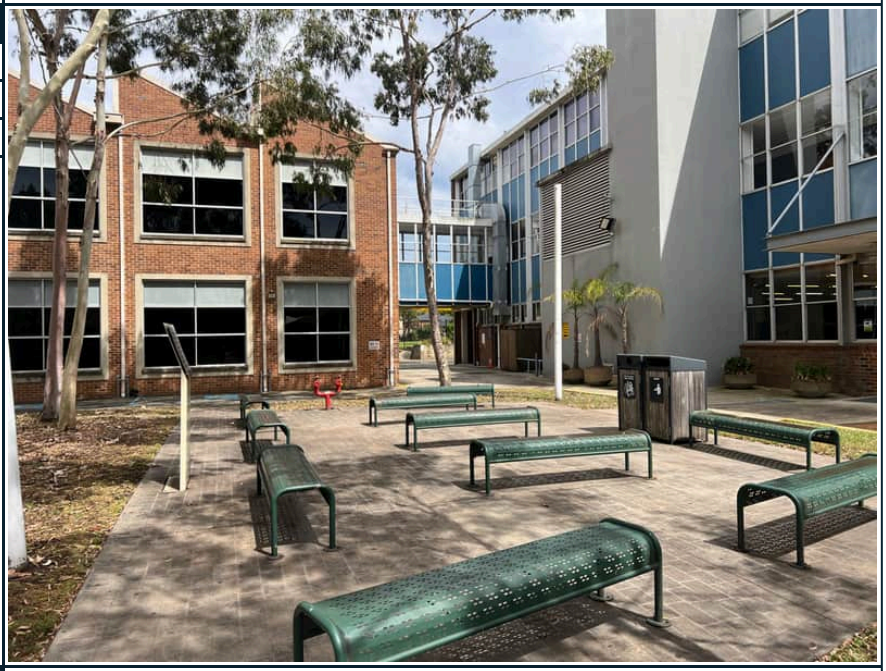
| Photo 55 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:23:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Entrance via Gate N |

| Photo 56 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:23:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Entrance via Gate N |

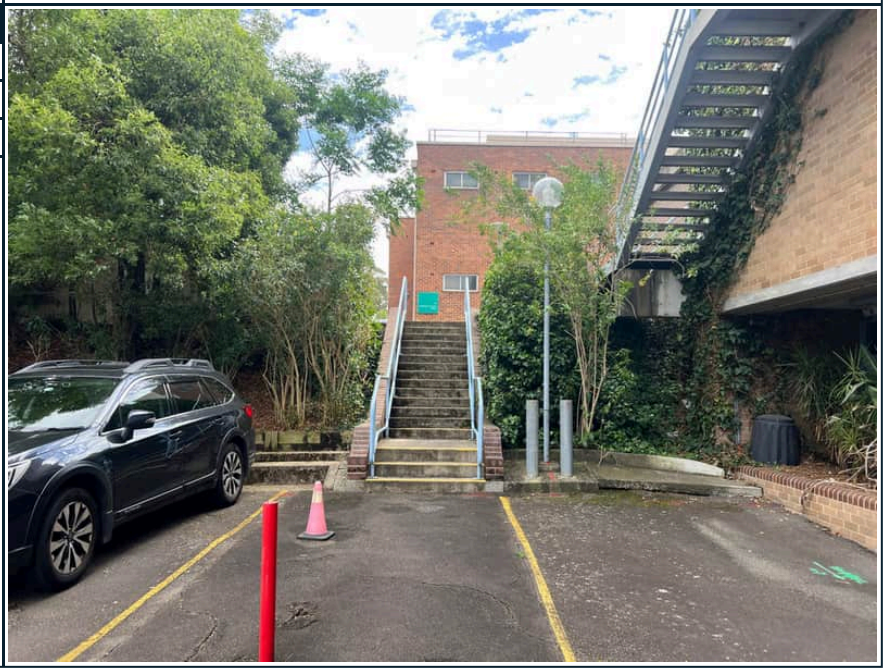
| Photo 57 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:33 am |
| **Location** | |
| **Reference** | |
| **Comment** | Central grassed seating area |

| Photo 58 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:33 am |
| **Location** | |
| **Reference** | |
| **Comment** | Central grassed seating area |

| Photo 59 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:35 am |
| **Location** | |
| **Reference** | |
| **Comment** | Central grassed seating area |



| Photo 60 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:48:53 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |



| Photo 61 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:48:54 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |

| Photo 62 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:01 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |

| Photo 63 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:02 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |

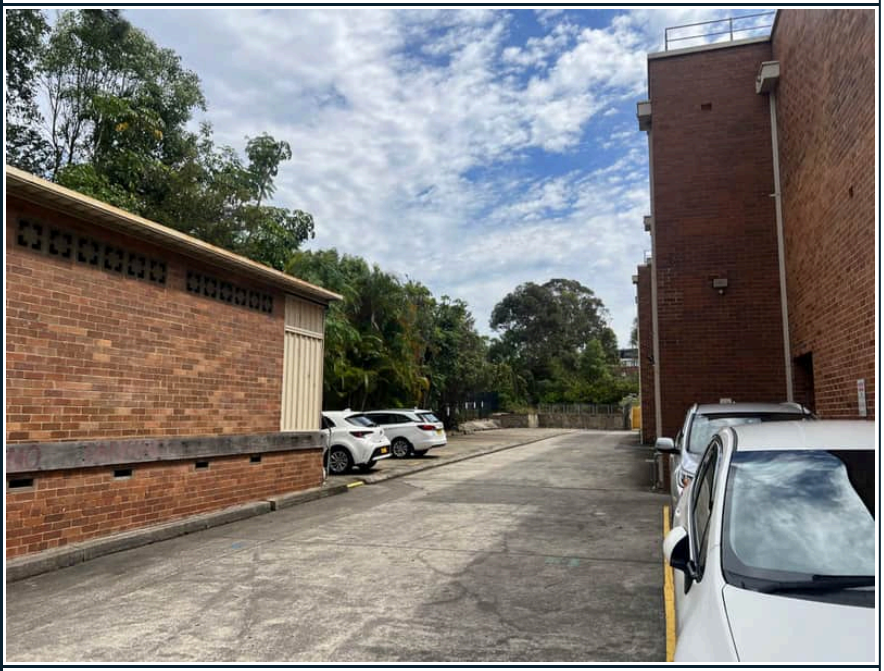
| Photo 64 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Energy Australia transformer |

| Photo 65 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:31 am |
| **Location** | |
| **Reference** | |
| **Comment** | Energy Australia transformer |

| Photo 66 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garbage area to the west of Building A |

| Photo 67 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:46 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garbage area to the west of Building A |

| Photo 68 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:47 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garbage area to the west of Building A |



| Photo 69 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:41 am |
| **Location** | |
| **Reference** | |
| **Comment** | Building G |

| Photo 70 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:40 am |
| **Location** | |
| **Reference** | |
| **Comment** | Building G |

| Photo 71 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:06 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

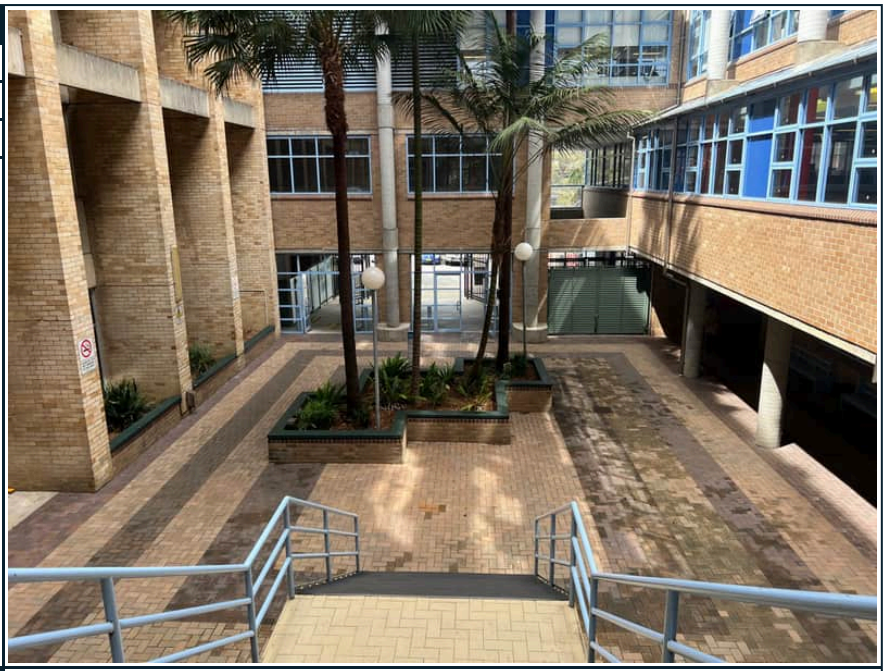
| Photo 72 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:52 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

| Photo 73 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:56 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

| Photo 74 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:51 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

| Photo 75 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:07 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

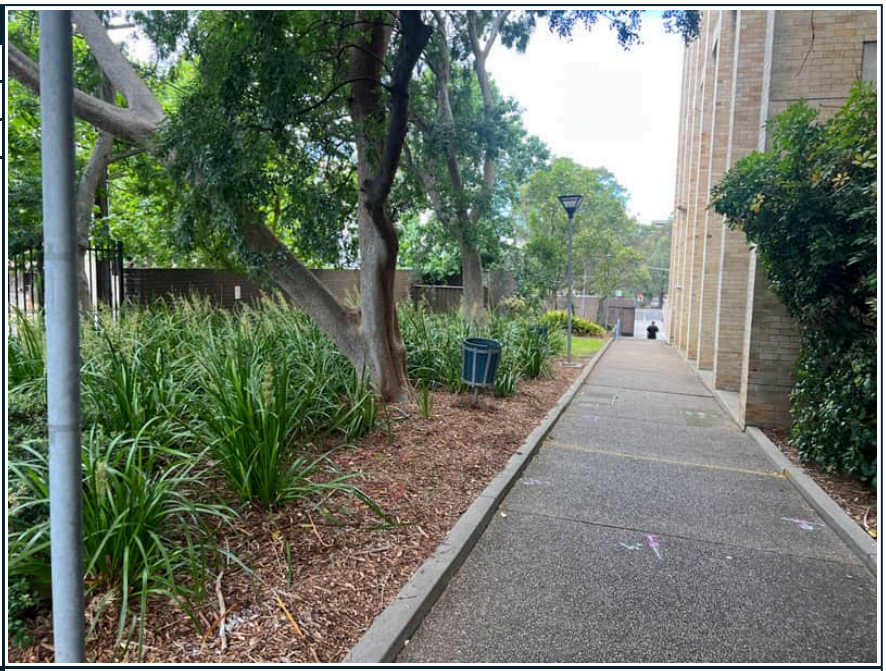
| Photo 76 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:50 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |



| Photo 77 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:32 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

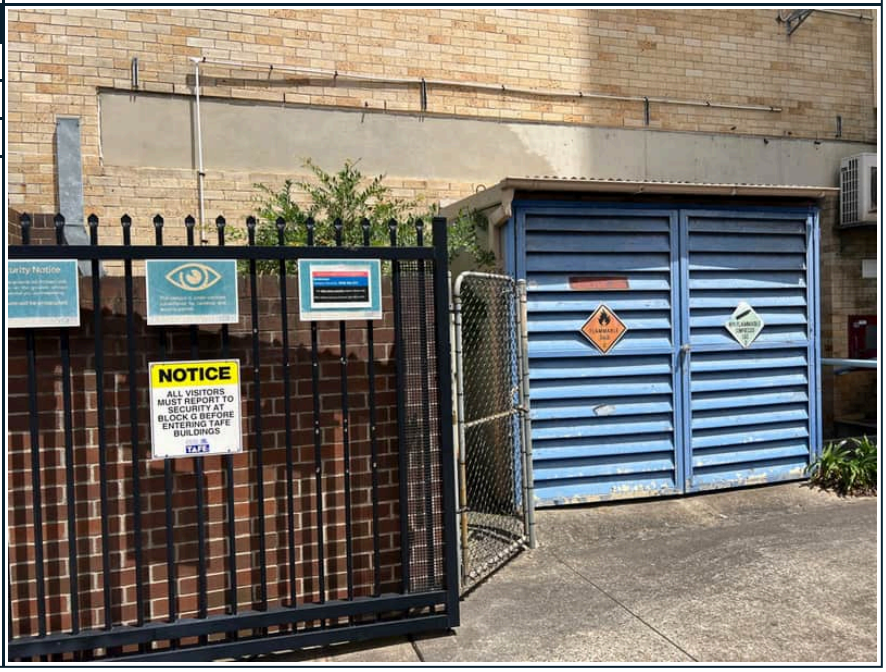
| Photo 78 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:56:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden area to the east of Building E |

| Photo 79 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:56:21 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden area to the east of Building E |

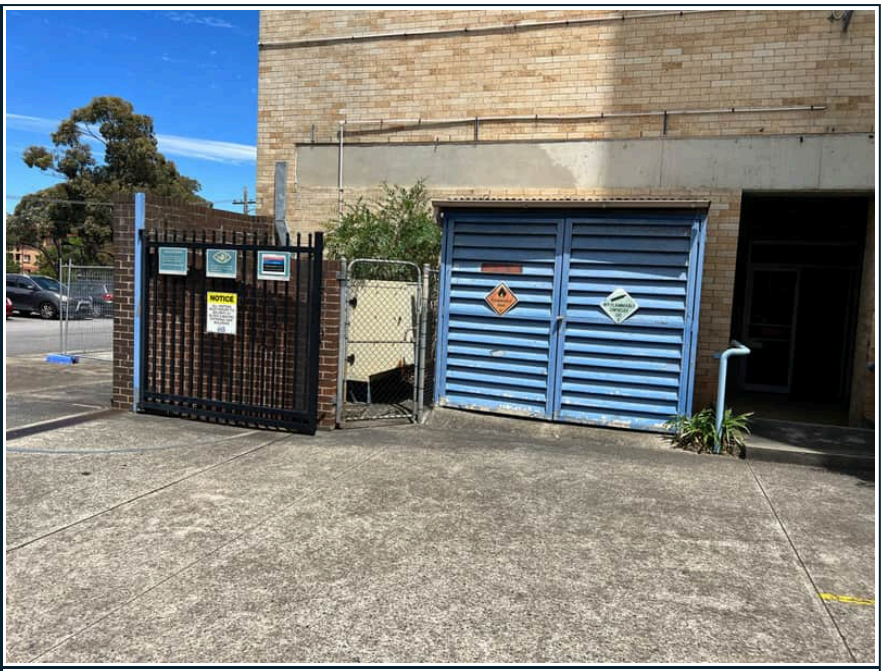


| Photo 80 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:26:34 am |
| **Location** | |
| **Reference** | |
| **Comment** | Backup generator and fuel storage to the east of Building E |

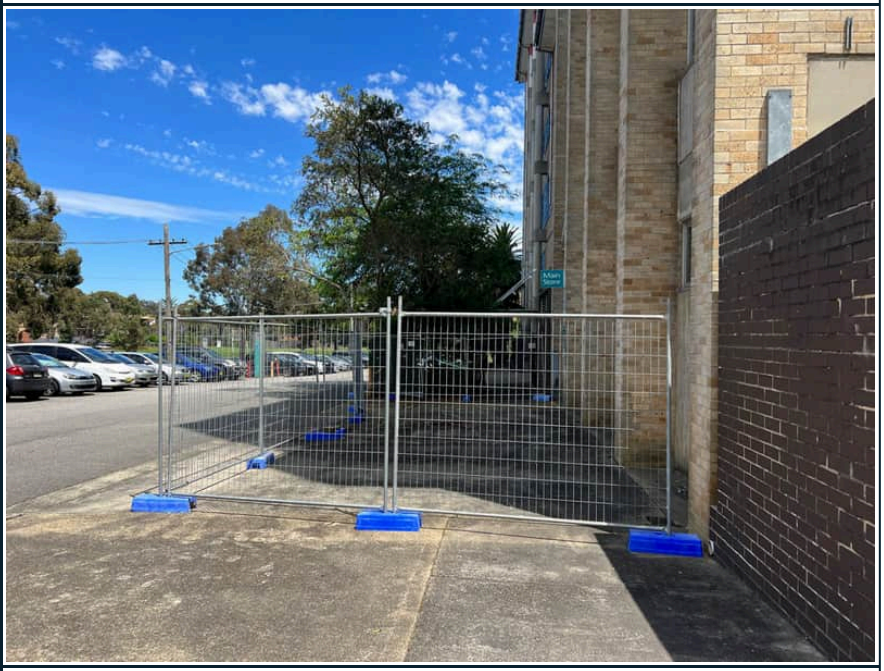
| Photo 81 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:26:41 am |
| **Location** | |
| **Reference** | |
| **Comment** | Backup generator and fuel storage to the east of Building E |



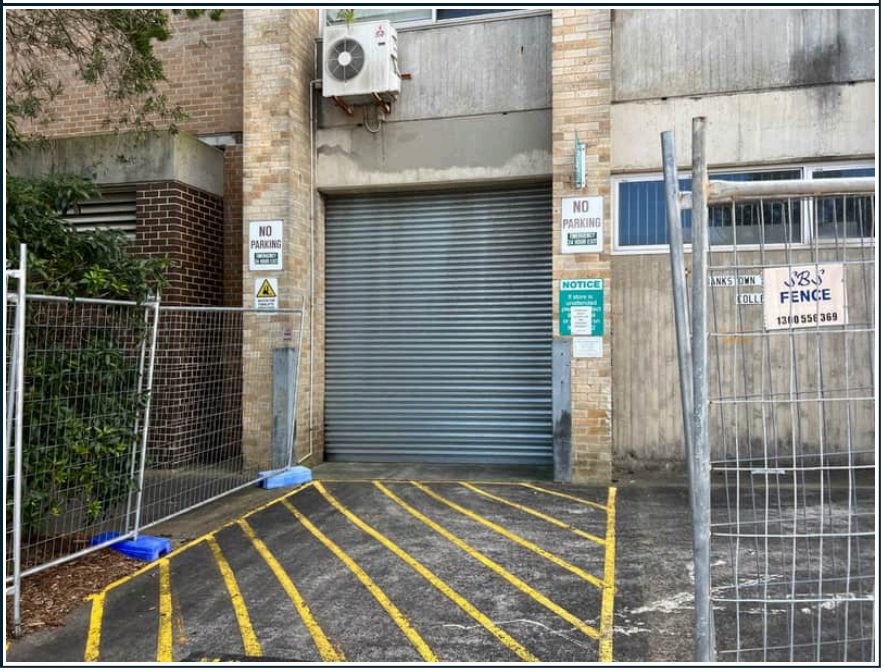
| Photo 82 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:26:46 am |
| **Location** | |
| **Reference** | |
| **Comment** | Backup generator and fuel storage to the east of Building E |



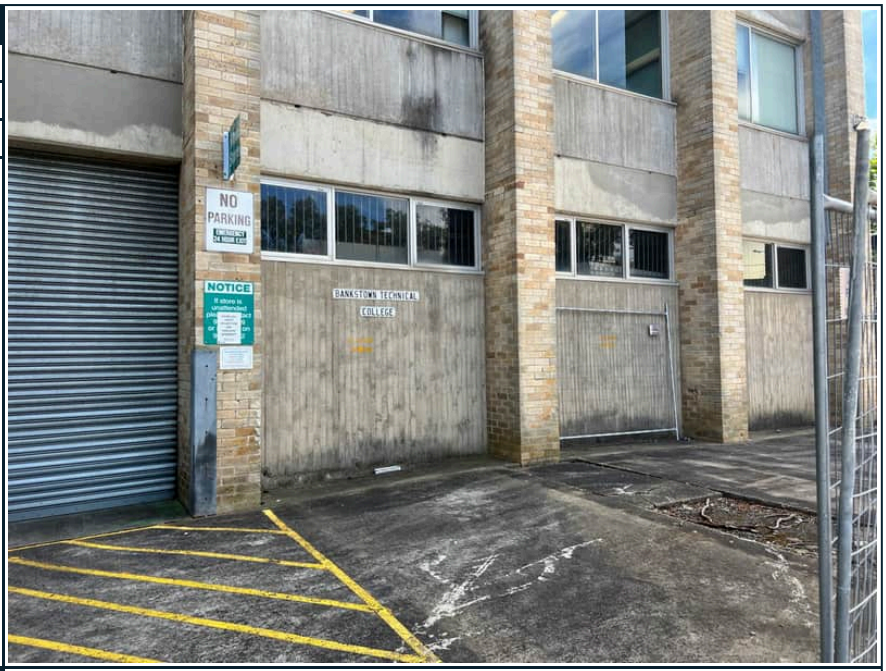

| Photo 83 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:25 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |



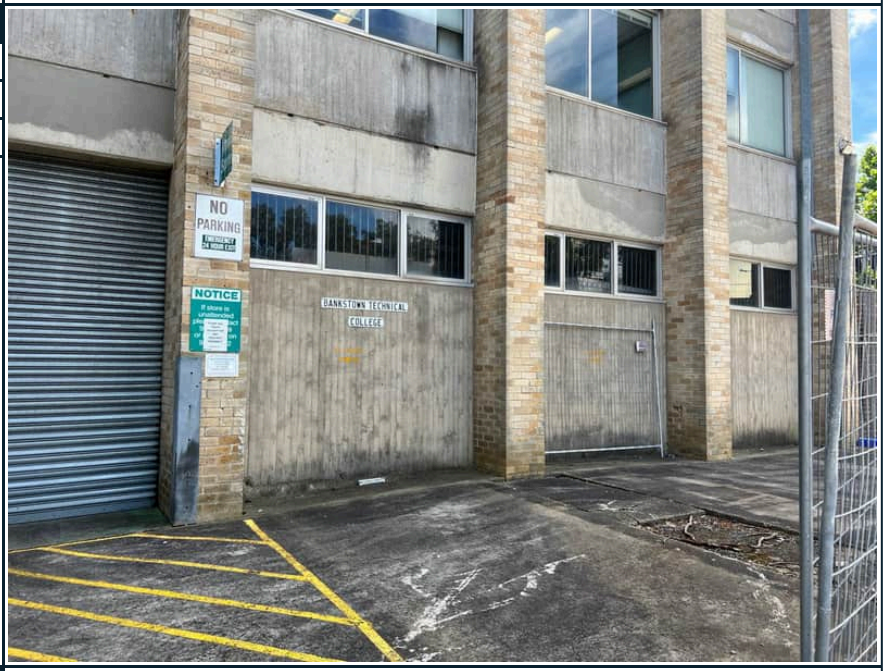
| Photo 84 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:44 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |



| Photo 85 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:50 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |




| Photo 86 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:50 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |




| Photo 87 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:33:02 am |
| **Location** | -33.79899, 151.18128 |
| **Reference** | |
| **Comment** | Foot entrance into the TAFE |

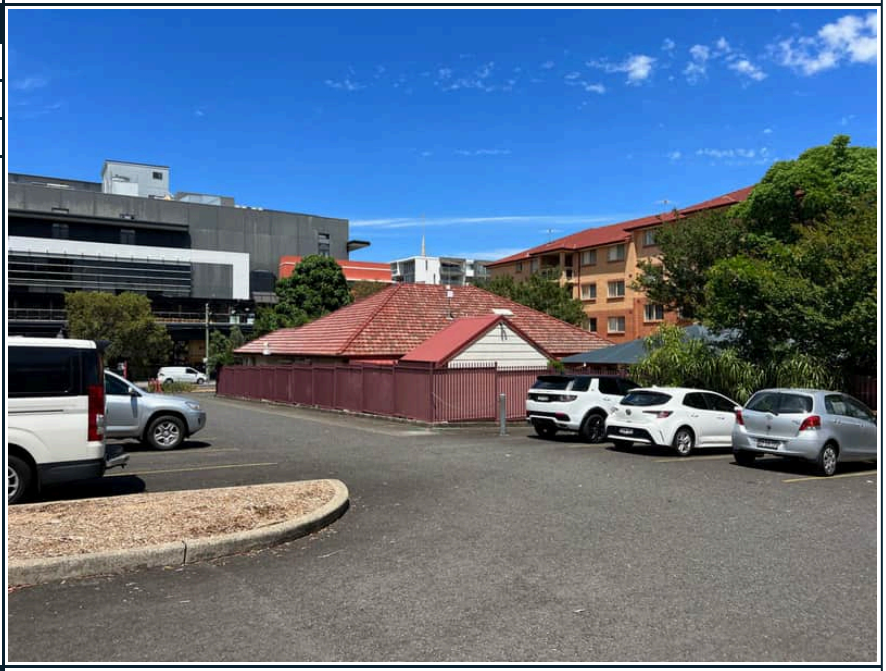
| Photo 88 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:53 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 89 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:33:11 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 90 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:33:12 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 91 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:34:06 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 92 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:34:08 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |



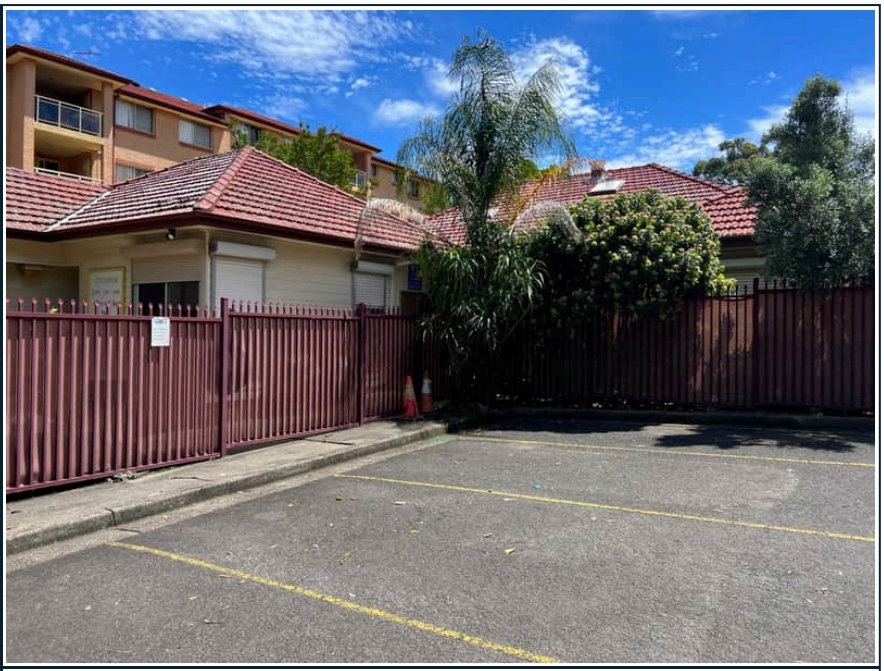
| Photo 93 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:25 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 94 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:26 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

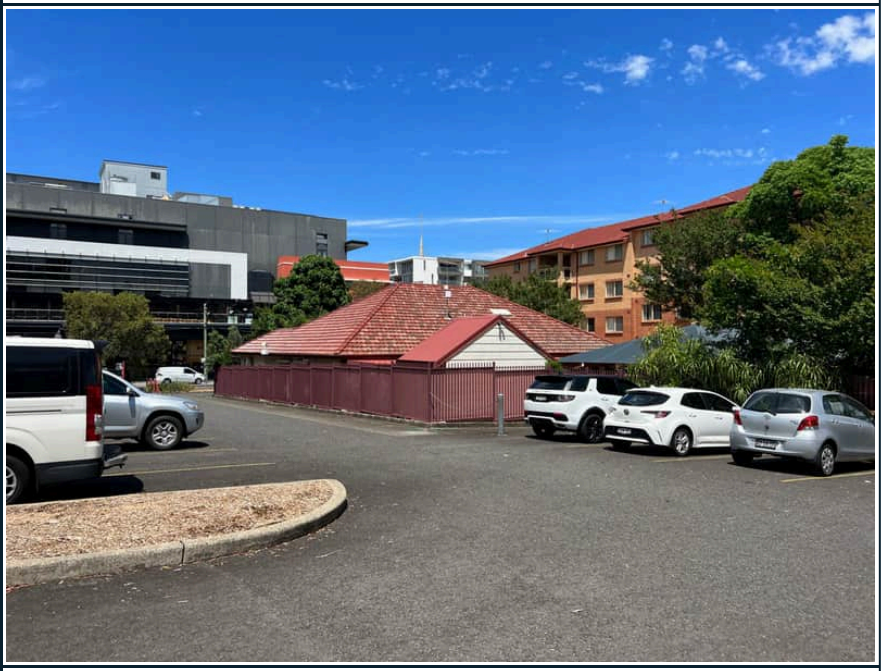
| Photo 95 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:27 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 96 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:23 am |
| **Location** | -33.79991, 151.18098 |
| **Reference** | |
| **Comment** | Childcare centre (Building L) to the southeast of the Site |

| Photo 97 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:22 am |
| **Location** | -33.79991, 151.18098 |
| **Reference** | |
| **Comment** | Childcare centre (Building L) to the southeast of the Site |

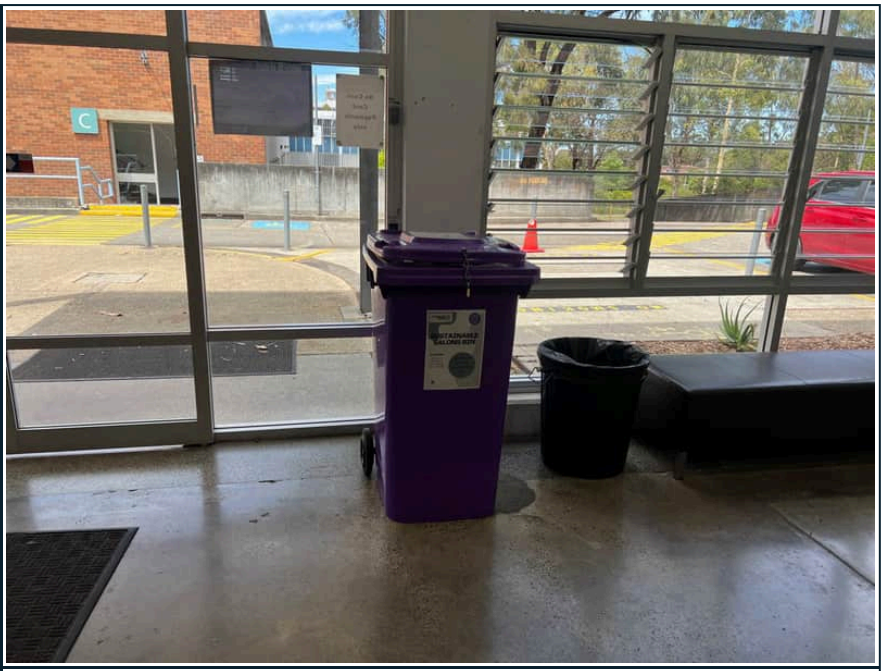


| Photo 98 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:34:08 am |
| **Location** | -33.79991, 151.18098 |
| **Reference** | |
| **Comment** | Childcare centre (Building L) to the southeast of the Site |



| Photo 99 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:05:06 am |
| **Location** | -33.81115, 151.18169 |
| **Reference** | |
| **Comment** | Sustainable Salons bins within Building D, used to dispose of unused bleaches and dyes |

| Photo 100 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:00 am |
| **Location** | -33.81115, 151.18169 |
| **Reference** | |
| **Comment** | Sustainable Salons bins within Building D, used to dispose of unused bleaches and dyes |



| Photo 101 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:40 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

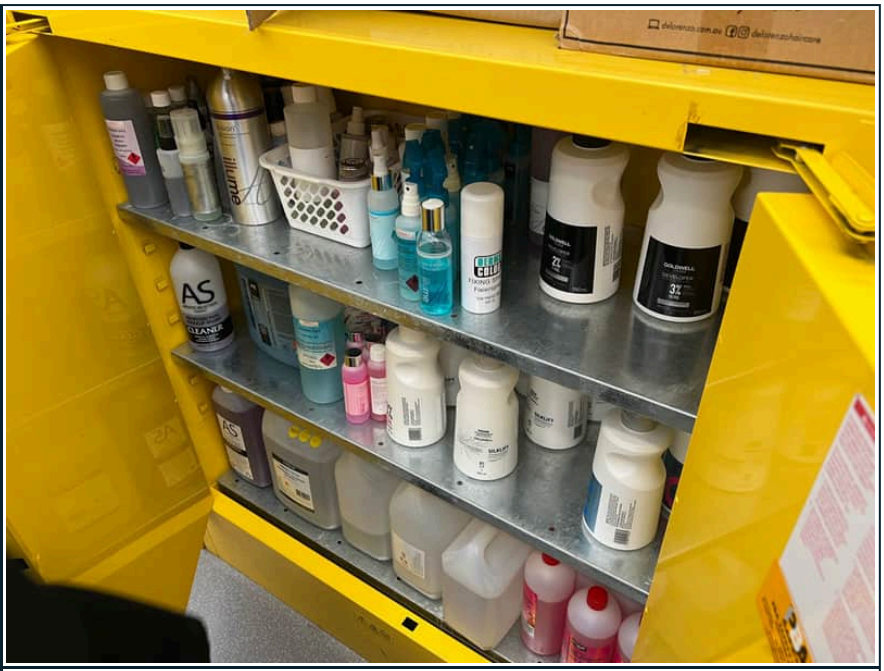
| Photo 102 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:43 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 103 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:45 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 104 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:50 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 105 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:53 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

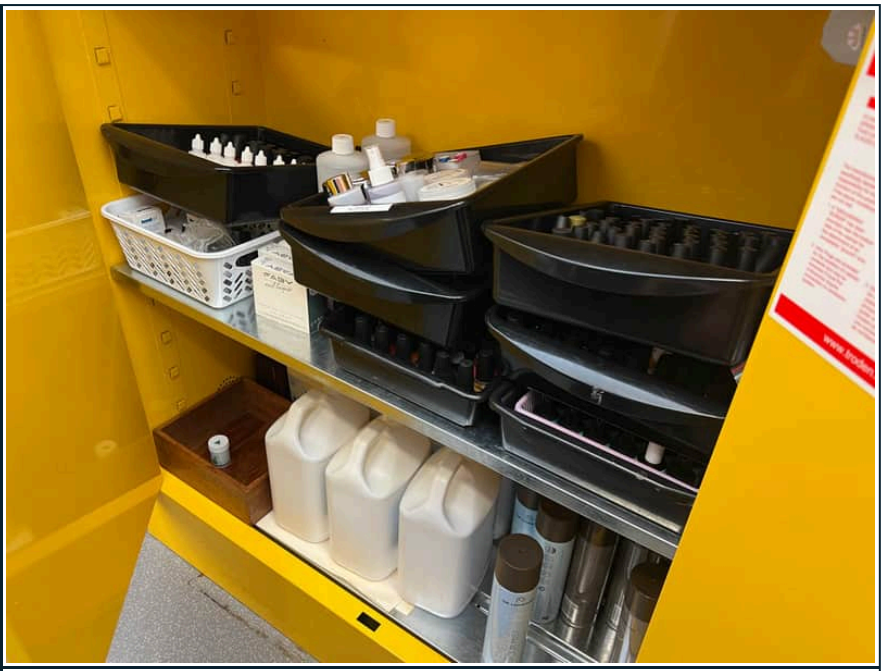
| Photo 106 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:05 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |




| Photo 107 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:16 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 108 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:20 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

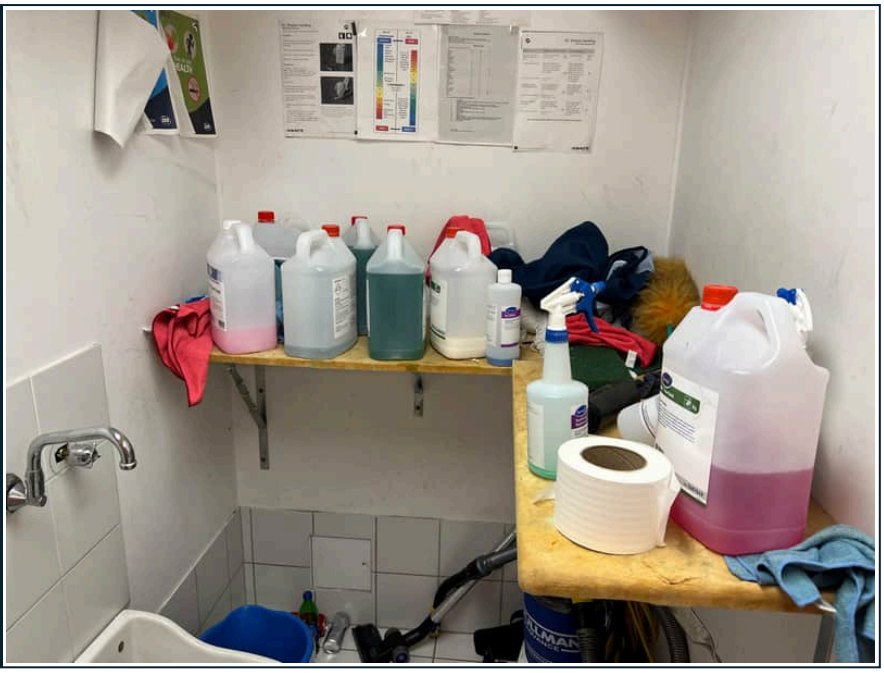
| Photo 109 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:32 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |



| Photo 110 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:08:47 am |
| **Location** | |
| **Reference** | |
| **Comment** | Cleaning products within the cleaners room within Building D |

| Photo 111 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:08:45 am |
| **Location** | |
| **Reference** | |
| **Comment** | Cleaning products within the cleaners room within Building D |

| Photo 112 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:08:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Cleaning products within the cleaners room within Building D |



# Field Site Notes

## Inspection Details

| | |
|---|---|
| **Inspection Name** | Bankstown New Hospital |
| **Inspection ID** | |
| **Inspector** | Harrison Wood |
| **Date** | 2024-12-09 |
| **Time** | 08:18 |
| **General Photos** | |

## General Comments

## Notes

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.91086, 151.03457 | TP111 | | 1 - 8 |
| -33.91101, 151.03471 | TP112 | | 9 - 15 |
| -33.91070, 151.03415 | TP110 | | 16 - 18 |
| -33.91111, 151.03457 | TP113 | | 19 - 26 |
| -33.91104, 151.03473 | TP115 | | 27 - 34 |
| -33.91120, 151.03453 | TP114 | | 35 - 40 |
| -33.91127, 151.03506 | TP117 | | 41 - 45 |
| -33.91100, 151.03506 | TP116 | | 46 - 50 |
| -33.91128, 151.03455 | TP119 | | 51 - 60 |
| -33.91075, 151.03518 | TP109 | | 61 - 65 |
| -33.90963, 151.03470 | TP101 | | 66 - 69 |
| -33.90957, 151.03536 | TP102 | | 70 - 72 |
| -33.91029, 151.03457 | TP106 | | 73 - 77 |
| -33.91018, 151.03455 | TP104 | | 78 - 81 |
| -33.91020, 151.03435 | TP103 | | 82 - 88 |
| -33.91033, 151.03433 | TP105 | | 89 - 94 |
| -33.90994, 151.03550 | TP107 | | 95 - 100 |
| -33.91221, 151.03412 | TP122 | | 101 - 105 |
| -33.91211, 151.03475 | TP123 | | 106 - 109 |
| -33.91230, 151.03476 | TP126 | | 110 - 112 |
| -33.91228, 151.03447 | TP125 | | 113 - 116 |
| -33.91208, 151.03432 | TP121 | | 117 - 120 |
| -33.91230, 151.03425 | TP124 | | 121 - 126 |
| -33.91185, 151.03495 | TP120 | | 127 - 128 |
| -33.91258, 151.03459 | TP129 | | 129 - 132 |
| -33.91252, 151.03441 | TP128 | | 133 - 137 |
| -33.91287, 151.03406 | TP130 | | 138 - 142 |
| -33.91280, 151.03445 | TP130 | | 143 - 145 |
| -33.91295, 151.03445 | TP131 | | 146 - 149 |

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.91245, 151.03393 | TP127 | | 150 - 157 |
| -33.91303, 151.03473 | TP132 | | 158 - 162 |
| -33.90952, 151.03435 | TP108 | | 163 - 166 |

## Map

| Photo 1 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:32 am |
| **Location** | -33.91085, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 2 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:38 am |
| **Location** | -33.91082, 151.03453 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 3 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:44 am |
| **Location** | -33.91082, 151.03454 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 4 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:50 am |
| **Location** | -33.91084, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 5 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:54 am |
| **Location** | -33.91086, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 6 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:26:43 am |
| **Location** | -33.91081, 151.03457 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 7 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:26:46 am |
| **Location** | -33.91081, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 8 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:32:44 am |
| **Location** | -33.91085, 151.03453 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 9 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:05 am |
| **Location** | -33.91092, 151.03467 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 10 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:12 am |
| **Location** | -33.91091, 151.03464 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 11 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:19 am |
| **Location** | -33.91092, 151.03464 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 12 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:23 am |
| **Location** | -33.91093, 151.03467 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 13 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:30 am |
| **Location** | -33.91089, 151.03465 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 14 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:36 am |
| **Location** | -33.91091, 151.03464 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 15 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:17:43 am |
| **Location** | -33.91098, 151.03458 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 16 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:36:28 am |
| **Location** | -33.91083, 151.03424 |
| **Reference** | TP110 |
| **Comment** | |

| Photo 17 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:36:36 am |
| **Location** | -33.91083, 151.03422 |
| **Reference** | TP110 |
| **Comment** | |

| Photo 18 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:36:41 am |
| **Location** | -33.91082, 151.03421 |
| **Reference** | TP110 |
| **Comment** | |

| Photo 19 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:28 am |
| **Location** | -33.91118, 151.03460 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 20 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:32 am |
| **Location** | -33.91117, 151.03459 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 21 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:38 am |
| **Location** | -33.91114, 151.03457 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 22 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:42 am |
| **Location** | -33.91114, 151.03458 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 23 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:45 am |
| **Location** | -33.91114, 151.03459 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 24 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:31:49 am |
| **Location** | -33.91115, 151.03464 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 25 | |
|---|---|
| Timestamp | 09/12/2024, 10:31:53 am |
| Location | -33.91115, 151.03464 |
| Reference | TP113 |
| Comment | |

| Photo 26 | |
|---|---|
| Timestamp | 09/12/2024, 10:34:01 am |
| Location | -33.91118, 151.03464 |
| Reference | TP113 |
| Comment | |

| Photo 27 | |
|---|---|
| Timestamp | 09/12/2024, 11:05:07 am |
| Location | -33.91124, 151.03463 |
| Reference | TP115 |
| Comment | |

| Photo 28 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:13 am |
| **Location** | -33.91127, 151.03464 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 29 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:19 am |
| **Location** | -33.91130, 151.03464 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 30 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:24 am |
| **Location** | -33.91131, 151.03463 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 31 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:32 am |
| **Location** | -33.91131, 151.03466 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 32 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:07:45 am |
| **Location** | -33.91129, 151.03466 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 33 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:07:49 am |
| **Location** | -33.91129, 151.03467 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 34 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:07:59 am |
| **Location** | -33.91131, 151.03464 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 35 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:16 pm |
| **Location** | -33.91120, 151.03454 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 36 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:21 pm |
| **Location** | -33.91122, 151.03455 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 37 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:25 pm |
| **Location** | -33.91126, 151.03455 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 38 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:37 pm |
| **Location** | -33.91119, 151.03449 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 39 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:40 pm |
| **Location** | -33.91122, 151.03451 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 40 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:16:13 pm |
| **Location** | -33.91126, 151.03454 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 41 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:40 pm |
| **Location** | -33.91125, 151.03506 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 42 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:44 pm |
| **Location** | -33.91126, 151.03508 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 43 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:48 pm |
| **Location** | -33.91128, 151.03505 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 44 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:52 pm |
| **Location** | -33.91130, 151.03504 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 45 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:56 pm |
| **Location** | -33.91131, 151.03503 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 46 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:12 pm |
| **Location** | -33.91099, 151.03501 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 47 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:15 pm |
| **Location** | -33.91099, 151.03499 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 48 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:18 pm |
| **Location** | -33.91100, 151.03499 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 49 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:24 pm |
| **Location** | -33.91101, 151.03503 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 50 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:27 pm |
| **Location** | -33.91102, 151.03505 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 51 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:53:47 pm |
| **Location** | -33.91131, 151.03452 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 52 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:53:54 pm |
| **Location** | -33.91129, 151.03452 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 53 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:54:02 pm |
| **Location** | -33.91133, 151.03451 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 54 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:27 pm |
| **Location** | -33.91130, 151.03449 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 55 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:34 pm |
| **Location** | -33.91131, 151.03446 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 56 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:36 pm |
| **Location** | -33.91131, 151.03446 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 57 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:40 pm |
| **Location** | -33.91131, 151.03447 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 58 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:06:58 pm |
| **Location** | -33.91128, 151.03447 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 59 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:07:02 pm |
| **Location** | -33.91128, 151.03448 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 60 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:27:25 pm |
| **Location** | -33.91086, 151.03455 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 61 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:42 pm |
| **Location** | -33.91066, 151.03502 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 62 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:46 pm |
| **Location** | -33.91066, 151.03502 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 63 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:51 pm |
| **Location** | -33.91066, 151.03503 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 64 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:55 pm |
| **Location** | -33.91065, 151.03503 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 65 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:58 pm |
| **Location** | -33.91064, 151.03503 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 66 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:18 pm |
| **Location** | -33.90950, 151.03494 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 67 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:23 pm |
| **Location** | -33.90950, 151.03492 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 68 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:27 pm |
| **Location** | -33.90951, 151.03492 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 69 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:36 pm |
| **Location** | -33.90951, 151.03494 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 70 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:50:31 pm |
| **Location** | -33.90958, 151.03534 |
| **Reference** | TP102 |
| **Comment** | |

| Photo 71 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:50:37 pm |
| **Location** | -33.90961, 151.03534 |
| **Reference** | TP102 |
| **Comment** | |

| Photo 72 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:50:41 pm |
| **Location** | -33.90959, 151.03535 |
| **Reference** | TP102 |
| **Comment** | |

| Photo 73 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:19:42 am |
| **Location** | -33.91028, 151.03467 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 74 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:19:46 am |
| **Location** | -33.91028, 151.03465 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 75 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:19:51 am |
| **Location** | -33.91031, 151.03460 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 76 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:36:29 am |
| **Location** | -33.91030, 151.03464 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 77 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:36:32 am |
| **Location** | -33.91033, 151.03463 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 78 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:24 am |
| **Location** | -33.91012, 151.03469 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 79 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:30 am |
| **Location** | -33.91009, 151.03466 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 80 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:35 am |
| **Location** | -33.91009, 151.03466 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 81 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:45 am |
| **Location** | -33.91008, 151.03469 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 82 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:16 am |
| **Location** | -33.91021, 151.03434 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 83 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:25 am |
| **Location** | -33.91015, 151.03442 |
| **Reference** | TP103 |
| **Comment** | |

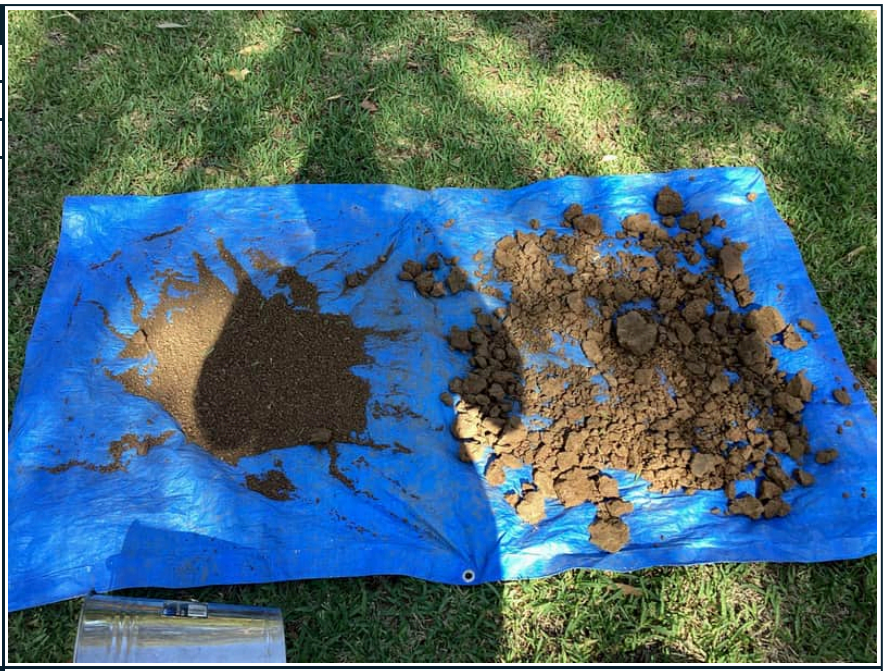
| Photo 84 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:29 am |
| **Location** | -33.91016, 151.03444 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 85 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:33 am |
| **Location** | -33.91014, 151.03447 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 86 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:42 am |
| **Location** | -33.91016, 151.03445 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 87 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:45 am |
| **Location** | -33.91016, 151.03444 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 88 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:17:50 am |
| **Location** | -33.91021, 151.03433 |
| **Reference** | TP103 |
| **Comment** | |



| Photo 89 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:04:54 am |
| **Location** | -33.91033, 151.03438 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 90 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:05:25 am |
| **Location** | -33.91031, 151.03433 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 91 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:05:30 am |
| **Location** | -33.91030, 151.03435 |
| **Reference** | TP105 |
| **Comment** | |

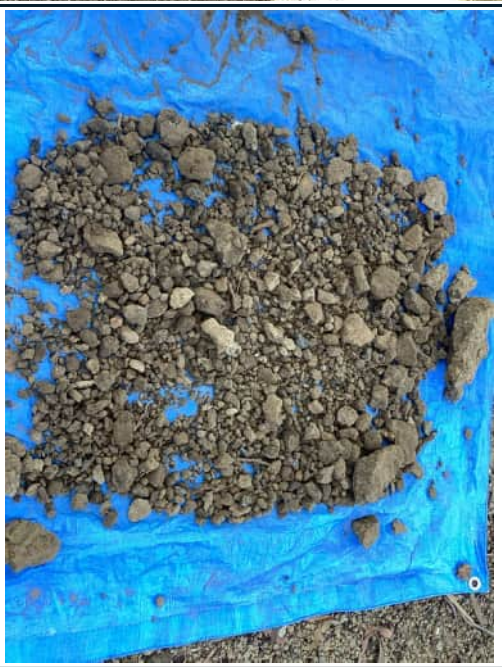
| Photo 92 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:05:33 am |
| **Location** | -33.91030, 151.03436 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 93 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:08:02 am |
| **Location** | -33.91033, 151.03436 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 94 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:08:06 am |
| **Location** | -33.91032, 151.03441 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 95 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:49:54 am |
| **Location** | -33.91005, 151.03525 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 96 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:49:58 am |
| **Location** | -33.91006, 151.03524 |
| **Reference** | TP107 |
| **Comment** | |



| Photo 97 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:50:02 am |
| **Location** | -33.91005, 151.03524 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 98 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:50:09 am |
| **Location** | -33.91003, 151.03524 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 99 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:53:37 am |
| **Location** | -33.91014, 151.03526 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 100 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:53:41 am |
| **Location** | -33.91013, 151.03522 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 101 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:16:43 pm |
| **Location** | -33.91213, 151.03453 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 102 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:00 pm |
| **Location** | -33.91209, 151.03454 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 103 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:17 pm |
| **Location** | -33.91209, 151.03461 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 104 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:23 pm |
| **Location** | -33.91214, 151.03459 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 105 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:31 pm |
| **Location** | -33.91214, 151.03458 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 106 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:45:00 pm |
| **Location** | -33.91212, 151.03473 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 107 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:45:09 pm |
| **Location** | -33.91212, 151.03476 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 108 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:58:00 pm |
| **Location** | -33.91212, 151.03478 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 109 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:58:06 pm |
| **Location** | -33.91212, 151.03477 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 110 | |
|---|---|
| **Timestamp** | 10/12/2024, 1:52:09 pm |
| **Location** | -33.91227, 151.03469 |
| **Reference** | TP126 |
| **Comment** | |

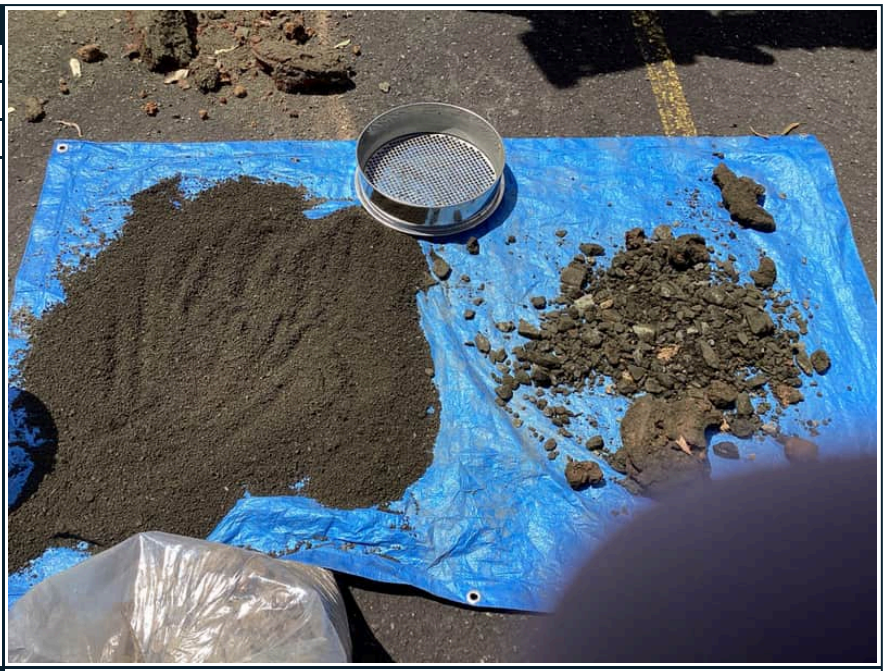
| Photo 111 | |
|---|---|
| **Timestamp** | 10/12/2024, 1:52:15 pm |
| **Location** | -33.91228, 151.03469 |
| **Reference** | TP126 |
| **Comment** | |

| Photo 112 | |
|---|---|
| **Timestamp** | 10/12/2024, 1:52:21 pm |
| **Location** | -33.91231, 151.03467 |
| **Reference** | TP126 |
| **Comment** | |

| Photo 113 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:20:51 pm |
| **Location** | -33.91228, 151.03442 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 114 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:20:55 pm |
| **Location** | -33.91228, 151.03444 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 115 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:33:37 pm |
| **Location** | -33.91231, 151.03441 |
| **Reference** | TP125 |
| **Comment** | |



| Photo 116 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:33:41 pm |
| **Location** | -33.91231, 151.03443 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 117 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:28:43 pm |
| **Location** | -33.91210, 151.03428 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 118 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:28:54 pm |
| **Location** | -33.91203, 151.03435 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 119 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:29:02 pm |
| **Location** | -33.91208, 151.03431 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 120 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:29:46 pm |
| **Location** | -33.91206, 151.03427 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 121 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:26 pm |
| **Location** | -33.91226, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 122 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:32 pm |
| **Location** | -33.91227, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 123 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:36 pm |
| **Location** | -33.91226, 151.03427 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 124 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:41 pm |
| **Location** | -33.91223, 151.03427 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 125 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:03:36 pm |
| **Location** | -33.91220, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 126 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:03:46 pm |
| **Location** | -33.91219, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 127 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:55:20 pm |
| **Location** | -33.91185, 151.03493 |
| **Reference** | TP120 |
| **Comment** | |

| Photo 128 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:55:31 pm |
| **Location** | -33.91185, 151.03488 |
| **Reference** | TP120 |
| **Comment** | |

| Photo 129 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:42 am |
| **Location** | -33.91262, 151.03468 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 130 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:48 am |
| **Location** | -33.91263, 151.03470 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 131 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:52 am |
| **Location** | -33.91262, 151.03467 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 132 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:56 am |
| **Location** | -33.91262, 151.03466 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 133 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:57:01 am |
| **Location** | -33.91253, 151.03441 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 134 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:57:08 am |
| **Location** | -33.91250, 151.03440 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 135 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:57:14 am |
| **Location** | -33.91249, 151.03441 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 136 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:07:51 am |
| **Location** | -33.91256, 151.03431 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 137 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:07:54 am |
| **Location** | -33.91253, 151.03444 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 138 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:54:33 am |
| **Location** | -33.91287, 151.03391 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 139 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:54:37 am |
| **Location** | -33.91289, 151.03392 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 140 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:54:41 am |
| **Location** | -33.91290, 151.03394 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 141 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:56:30 am |
| **Location** | -33.91289, 151.03393 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 142 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:56:33 am |
| **Location** | -33.91288, 151.03393 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 143 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:29:55 am |
| **Location** | -33.91284, 151.03440 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 144 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:30:02 am |
| **Location** | -33.91289, 151.03443 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 145 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:30:09 am |
| **Location** | -33.91292, 151.03441 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 146 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:27 am |
| **Location** | -33.91301, 151.03445 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 147 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:32 am |
| **Location** | -33.91293, 151.03442 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 148 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:39 am |
| **Location** | -33.91290, 151.03440 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 149 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:44 am |
| **Location** | -33.91289, 151.03444 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 150 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:18 am |
| **Location** | -33.91245, 151.03394 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 151 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:25 am |
| **Location** | -33.91243, 151.03392 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 152 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:29 am |
| **Location** | -33.91243, 151.03391 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 153 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:33 am |
| **Location** | -33.91243, 151.03392 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 154 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:35 am |
| **Location** | -33.91242, 151.03391 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 155 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:19:00 am |
| **Location** | -33.91247, 151.03394 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 156 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:19:04 am |
| **Location** | -33.91245, 151.03394 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 157 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:19:17 am |
| **Location** | -33.91242, 151.03393 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 158 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:15 am |
| **Location** | -33.91297, 151.03469 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 159 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:21 am |
| **Location** | -33.91294, 151.03468 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 160 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:25 am |
| **Location** | -33.91293, 151.03468 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 161 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:30 am |
| **Location** | -33.91295, 151.03470 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 162 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:33 am |
| **Location** | -33.91297, 151.03472 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 163 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:09 am |
| **Location** | -33.90956, 151.03447 |
| **Reference** | TP108 |
| **Comment** | |

| Photo 164 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:18 am |
| **Location** | -33.90956, 151.03447 |
| **Reference** | TP108 |
| **Comment** | |

| Photo 165 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:23 am |
| **Location** | -33.90954, 151.03446 |
| **Reference** | TP108 |
| **Comment** | |

| Photo 166 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:26 am |
| **Location** | -33.90949, 151.03444 |
| **Reference** | TP108 |
| **Comment** | |

# Field Site Notes

## Inspection Details

| | |
|---|---|
| **Inspection Name** | Bankstown New Hospital |
| **Inspection ID** | Groundwater Boreholes |
| **Inspector** | Harrison Wood |
| **Date** | 2024-12-19 |
| **Time** | 17:14 |
| **General Photos** | |

## General Comments

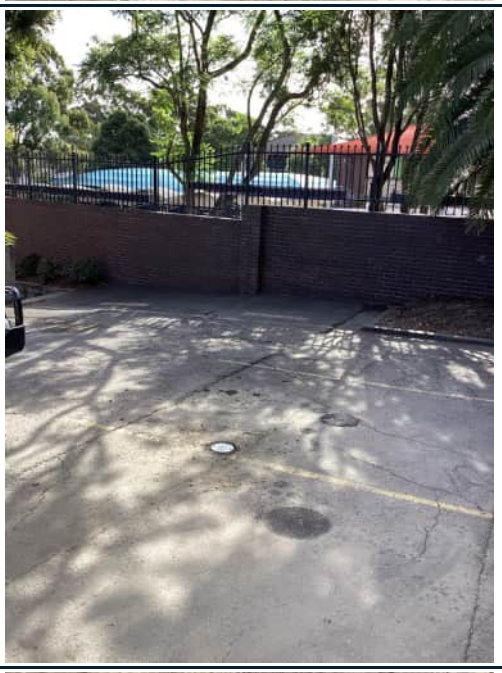
## Notes

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.90954, 151.03445 | BH101 | | 1 - 3 |
| -33.91308, 151.03474 | BH02 | | 4 - 7 |
| -33.91321, 151.03471 | BH03 | | 8 - 10 |

## Map

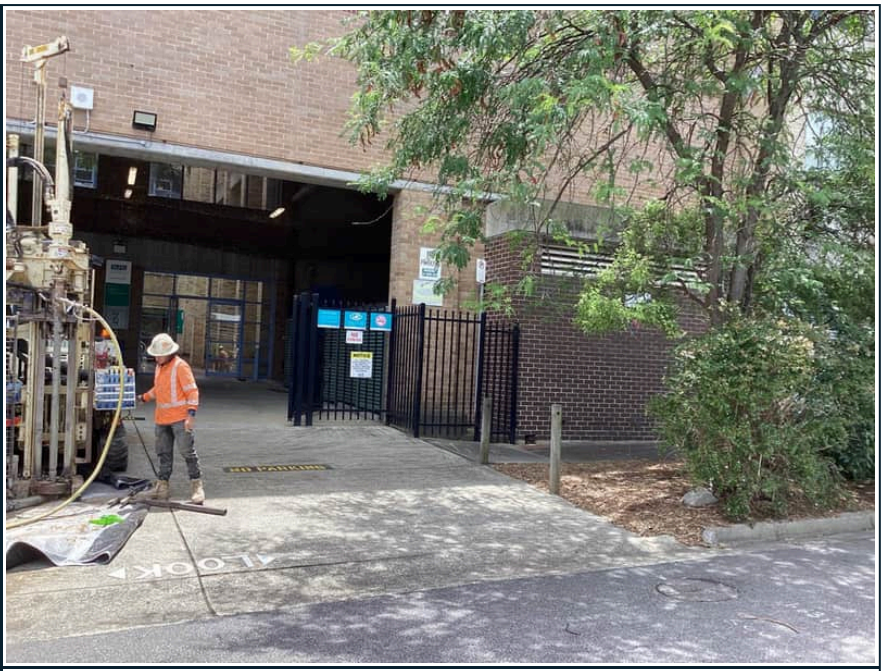
| Photo 1 | |
|---|---|
| **Timestamp** | 19/12/2024, 5:14:40 pm |
| **Location** | -33.90946, 151.03449 |
| **Reference** | BH101 |
| **Comment** | |

| Photo 2 | |
|---|---|
| **Timestamp** | 19/12/2024, 5:14:45 pm |
| **Location** | -33.90945, 151.03451 |
| **Reference** | BH101 |
| **Comment** | |



| Photo 3 | |
|---|---|
| **Timestamp** | 19/12/2024, 5:14:50 pm |
| **Location** | -33.90948, 151.03446 |
| **Reference** | BH101 |
| **Comment** | |

| Photo 4 | |
|---|---|
| **Timestamp** | 19/12/2024, 12:12:38 pm |
| **Location** | -33.91199, 151.03450 |
| **Reference** | BH02 |
| **Comment** | |

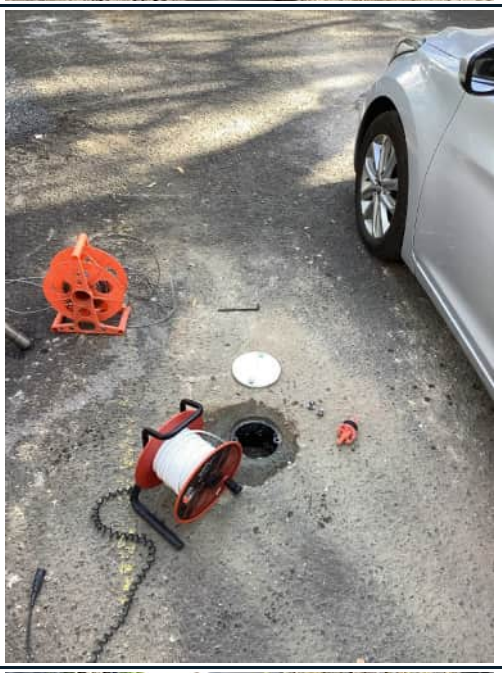


| Photo 5 | |
|---|---|
| **Timestamp** | 19/12/2024, 12:12:50 pm |
| **Location** | -33.91196, 151.03442 |
| **Reference** | BH02 |
| **Comment** | |

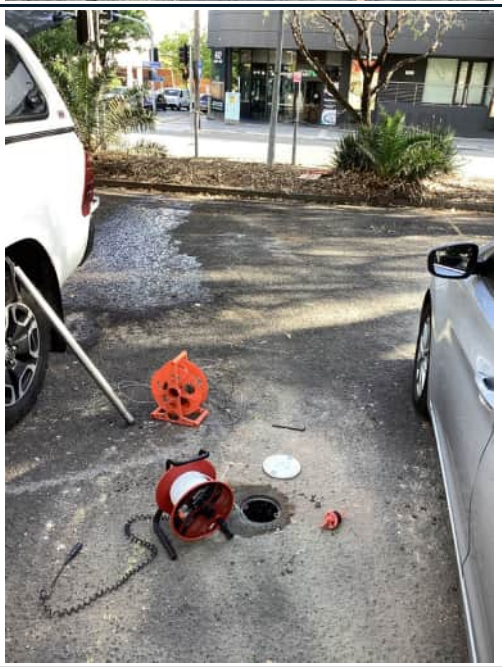
| Photo 6 | |
|---|---|
| **Timestamp** | 19/12/2024, 4:39:28 pm |
| **Location** | -33.91219, 151.03444 |
| **Reference** | BH02 |
| **Comment** | |

| Photo 7 | |
|---|---|
| **Timestamp** | 19/12/2024, 4:39:36 pm |
| **Location** | -33.91195, 151.03447 |
| **Reference** | BH02 |
| **Comment** | |

| Photo 8 | |
|---|---|
| **Timestamp** | 19/12/2024, 5:42:19 pm |
| **Location** | -33.91308, 151.03467 |
| **Reference** | BH03 |
| **Comment** | |



| Photo 9 | |
|---|---|
| **Timestamp** | 19/12/2024, 5:42:23 pm |
| **Location** | -33.91302, 151.03469 |
| **Reference** | BH03 |
| **Comment** | |



| Photo 10 | |
|---|---|
| **Timestamp** | 19/12/2024, 5:50:00 pm |
| **Location** | -33.91306, 151.03463 |
| **Reference** | BH03 |
| **Comment** | |

*Photograph 1 Flammable storage room within Building E, on ground level, access not provided at the time of assessment, photo provided by TAFE Facilities Staff (photograph taken 25/11/2024).*

*Photograph 2 Internal Flammable Liquid Storage room, no staining evident, access not provided at the time of assessment, photo provided by TAFE Facilities Staff (photograph taken 25/11/2024).*

*Photograph 3 500L Underground Fuel Storage Tank vent pipe outside the flammable liquid storage room, access not provided at the time of assessment, photo provided by TAFE Facilities Staff (photograph taken 25/11/2024).*

Appendix D

# Data Quality Indicators

DQIs for the project were 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 were as per tables D1 to D5.

Table D1 Completeness.

| Completeness | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| All critical locations were sampled | Samples were collected as per Section 8. | Yes | All critical samples analysed. | Samples were analysed as per Section 8. | Yes |
| All samples collected | Samples were collected from relevant media as per Section 8. | Yes | All analytes analysed according to sampling plan. | Samples were analysed as per Section 8. | Yes |
| Standard Operating Procedures (SOPs) appropriate and complied with | SMEC SOPs/Field instructions were implemented. | Yes | Appropriate methods and limits of reporting. | Samples were analysed by laboratories NATA accredited for the analyses to be performed and appropriate methods were used. Limits of reporting (LORs) were 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 were returned, signed and dated by laboratory. NATA endorsed laboratory certificates were completed in accordance with NEPC (1999). Field documentation were completed in accordance with SMEC SOPs/Field instructions. | Yes (refer to Appendix I) |

| Completeness | | | | | |
|---|---|---|---|---|---|
| Documentation correct | Samples were handled and transported under appropriate chain of custody documentation. Sample Receipt Advice (SRA) (or equivalent) from the laboratory were reviewed to assess that samples are received cool and in good condition. Calibration certificates for the field instruments were provided on a daily basis. | Yes | Sample holding times complied with. | Samples were analysed within holding times specified by NEPC (1999, amended 2013) | Yes, with some exceptions (refer to Section 8.4.10) |

Table D2 Comparability.

| Comparability | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| Same SOPs/Field instructions used on each occasion | SMEC SOPs/Field instructions were implemented. | Yes | Same sample analytical methods used. | The same NATA accredited laboratory were 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 LOR. | | Yes |
| Climatic conditions (temperature, rainfall, wind, barometric pressure...) | Where practical soil and water sampling were carried out whilst not raining Sampling for this work were 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 were collected in the appropriate laboratory supplied container specific to the analyses performed. | Yes | Same units (justify/quantify if different). | | Yes |

Table D3 Representativeness

| Representativeness | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| Appropriate media sampled according to sample plan | Samples were collected and analysed as listed in Section 8. Any variations were justified. | Yes | All samples analysed according to sample plan. | Samples were collected and analysed as listed in Section 8. 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 2013). | Yes |
| All media identified in sample plan sampled | Samples were collected and analysed as listed in Section 8. | Yes | All samples analysed according to sample plan. | Samples were collected and analysed as listed in Section 8. | Yes |

Table D4 Precision.

| Precision | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| SOPs appropriate and complied with | SMEC SOPs/Field instructions were 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. | Yes |
| Analysis of: field duplicates | Collection of field duplicate samples including:<br>• Field intra-laboratory duplicate samples (1 in 10 for PFAS, 1 in 20 for other contaminants)<br>• Field inter-laboratory duplicate samples (1 in 10 for PFAS, 1 in 20 for other contaminants). | 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 LOR.<br>• No limit where result is less than 10 times LOR. | Yes, minor exceptions (refer to Section 8.4.10) |
| Experienced sampler | 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 8.4.10) |
| | | | Analysis of: laboratory-prepared trip spikes. | At least one BTEX trip spike per soil sampling and water quality monitoring event were analysed for volatile contaminants (BTEX). Recovery to be 70-130%. | Yes |
| | | | Analysis of: | At least one trip blank per soil sampling and water quality monitoring event were analysed for volatile contaminants (BTEX) and PFAS. Blanks should be <LOR. | Yes |

| Precision | | |
|---|---|---|
| | | laboratory-prepared trip blanks. |

Table D5 Accuracy (bias).

| Accuracy (bias) | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| SOP appropriate and complied with | SMEC SOPs/Field instructions were implemented | Yes | Analysis of field blanks | One laboratory-prepared water and one laboratory-prepared soil trip blank (PFAS and BTEX) and BTEX trip spike were taken into the field, transported and analysed together with soil and groundwater samples collected within this project. The trip blank and spike samples were analysed for volatile contaminants (i.e. BTEX, TRH C6-C9 fraction). Results are to be less than the LOR. | Yes |
| Rinsate blank | Where reusable sampling equipment is utilised (if any) a rinsate blank were analysed and results compared against the practical quantitation limit (PQL). | Yes, minor exceptions (refer to Section 8.4.10) | Analysis of method blank | Method blanks were analysed as per NEPC (2013) at least 1 per process batch (typically 1 in 20, 1 in 10 for PFAS). Results to be less than LOR. | Yes, minor exceptions (refer to Section 8.4.10) |
| Trip spike | One BTEX trip spike were taken in the field and analysed. DQI recoveries to be within 70% - 130% for organics | Yes, minor exceptions (refer to Section 8.4.10) | Analysis of matrix spike | Matrix spikes were analysed as per NEPC (2013) (one matrix spike per soil type per process batch). Results to be within laboratory acceptance limits based on NEPC (2013). Acceptance limits are on the laboratory certificates (typically 70-130%, depends on analyte. A lower range typically accepted for phenols 30%-130%) | Yes, minor exceptions (refer to Section 8.4.10) |
| Preservation, transport and storage | Samples appropriately preserved in laboratory supplied containers, stored and transported correctly and within holding times | Yes, minor exceptions (refer to Section 8.4.10) | Analysis of surrogate spike | Surrogates were 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, minor exceptions (refer to Section 8.4.10) |

| Accuracy (bias) | | | | |
|---|---|---|---|---|
| | | Analysis of laboratory control samples (LCS) | LCSs were analysed as per NEPC Schedule B3 (1999) (at least 1 per batch). Results to be within laboratory acceptance limits based on NEPC (2013). Acceptance limits are on the laboratory certificates (typically 70-130%, depends on analyte). | Yes, minor exceptions (refer to Section 8.4.10) |
| | | Analysis of laboratory prepared spikes (LPS) | LPS were analysed as per NEPC Schedule B3 (1999). Recovery results to be within laboratory acceptance limits based on NEPC Schedule B3 (2013). Acceptance limits are on the laboratory certificates. | Yes |

Appendix E

# Calibration Certificates

# PID calibration Sheet

| | |
|---|---|
| Project Name: | Bankstown Hospital DSI |
| SMEC Project Manager: | Manuel Fernandez |
| Date: | 9/12/24 |
| Previous PID calibration date: | |
| Device ID: | SMEC PID device (MiniRAE 3000) |
| Name of person performing PID check: | Harrison |

PID value (in fresh air) =

100ppm isobutylene was applied to the PID, the resulting measurement was: 94.2 .

Was the recorded isobutylene measurement <95ppm or >105ppm? Yes/No (please circle)

If Yes, calibration is required.

If no, no calibration is required.

If answered 'YES' to the above, calibrate device using 100ppm isobutylene, and record result here: 102.1 .

**Please record details of the following below:**

- Battery health
- Overall condition of device
- Any damage/wear and tear

# PID calibration Sheet

| | |
|---|---|
| Project Name: | Bankstown Hospital DSI |
| SMEC Project Manager: | Manuel Fernandez |
| Date: | 10/12/24 |
| Previous PID calibration date: | |
| Device ID: | SMEC PID device (MiniRAE 3000) |
| Name of person performing PID check: | Harrison |

PID value (in fresh air) =

100ppm isobutylene was applied to the PID, the resulting measurement was: 101.6 .

Was the recorded isobutylene measurement <95ppm or >105ppm? Yes, (No) (please circle)

If Yes, calibration is required.

If no, no calibration is required.

If answered 'YES' to the above, calibrate device using 100ppm isobutylene, and record result here: _____.

**Please record details of the following below:**

- Battery health
- Overall condition of device
- Any damage/wear and tear

# PID calibration Sheet

| | |
|---|---|
| Project Name: | Bankstown Hospital DSI |
| SMEC Project Manager: | Manuel Fernandez |
| Date: | 11/12/24 |
| Previous PID calibration date: | |
| Device ID: | SMEC PID device (MiniRAE 3000) |
| Name of person performing PID check: | Harrison |

PID value (in fresh air) =

100ppm isobutylene was applied to the PID, the resulting measurement was: 98.4 .

Was the recorded isobutylene measurement <95ppm or >105ppm? Yes, (No) (please circle)

If Yes, calibration is required.

If no, no calibration is required.

If answered 'YES' to the above, calibrate device using 100ppm isobutylene, and record result here: _____.

**Please record details of the following below:**

- Battery health
- Overall condition of device
- Any damage/wear and tear

## Multi Parameter Water Meter

**Instrument** YSI Quatro Pro Plus
**Serial No.** 18E104561

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 | | Standard Solutions | Certified | Solution Bottle Number | Instrument Reading |
|---|---|---|---|---|---|
| 1. pH 7.00 | | 7.00 | | 426181 | 7.02 |
| 2. pH 4.00 | | 4.00 | | 429462 | 4.01 |
| 3.ORP (mV) | | 227.40 | | 426086/426087 | 227.0 |
| 4.EC (uS/cm) | | 2760 | | 429463 | 2760 |
| 5. D.O (%) | | 0.0% | | 412773 | -0.4% |
| 6. Temp (C) | | 23.0 | | MultiTherm | 22.9 |

***Calibrated by:*** **Chris Nicdao**

***Calibration date:*** **2/01/2025**

***Next calibration due:*** **1/02/2025**

Appendix F

# Logs

# 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 insitu 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: assessment of material boundaries in areas of partial sampling and recovery,

a. location of areas of core loss,
b. description and classification of material,
c. estimate of field strength, and
d. identification of drilling induced fractures.

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

## Drilling Method

| Code | Description |
|---|---|
| AD/T | Auger drilling with TC-bit |
| AD/V | Auger drilling V-bit |
| AS | Auger screwing |
| AT | Air track |
| CA | Casing advancer |
| CC | Concrete core |
| CT | Cable tool rig |
| DB | Wash bore drag bit |
| HA | Hand auger |
| HAND | Hand methods |
| HSA | Hollow flight auger |
| HMLC | Diamond core 64mm diameter |
| HQ | Wireline, 64mm core diameter |
| HQ3 | Wireline, triple tube, 61mm core diameter |
| NDD | Non destructive drilling |
| NMLC | Diamond core 52mm diameter |
| NQ | Wireline, 48mm core diameter |
| NQ3 | Wireline, triple tube, 45mm core diameter |
| PT | Continuous push tube |
| PQ | Wireline, 85mm core diameter |
| PQ3 | Wireline, triple tube, 83mm core diameter |
| RAB | Rotary air blast |
| RC | Reverse circulation |
| RD | Rotary blade or drag bit |
| RR | Rock roller |
| RT | Rotary tricone bit |
| S | Sonic drilling |
| SFA | Solid flight auger |
| TBX | Tube-X |
| VC | Vibro-core drilling |
| VE | Vaccume Excavation |
| WB | Wash bore drilling |

## Casing

| Code | Outside Diameter |
|---|---|
| AW | 57.1 mm |
| BW | 73 mm |
| HW / HWT | 114.3 mm |
| NW / NWT | 89.9 mm |
| PW / PWT | 139.7 mm |
| PVC90 | 90 mm |
| PVC150 | 150 mm |

## 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.

## Borehole angle and Azimuth

Angle from horizontal where a positive angle is above horizontal, and a negative angle is below horizontal. Azimuth is to magnetic north and in degrees.

## Defect Orientation

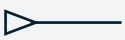
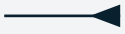
For vertical boreholes, the dip of the defect is measured relative to core normal (unless specified otherwise). The dip direction can not be ascertained for vertical holes. For inclined boreholes, the Alpha angle is recorded relative to the core axis and where core orientation has been undertaken (with appropriate reference line), a Beta angle can be measured clockwise from the reference line looking down the core axis in the direction of drilling. The alpha and beta angles can be converted to dip and dip direction if the position of the reference line relative the hole is known, and the borehole angle and azimuth is known.

## Excavation Method

| | |
|---|---|
| **N** | Natural exposure |
| **X** | Existing excavation |
| **BH** | Tractor mounted backhoe bucket |
| **E** | 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 inflow partial |
|  | Water outflow |
| | Water outflow partial |
| | Water level: during drilling or immediately after completion of drilling |

## Groundwater

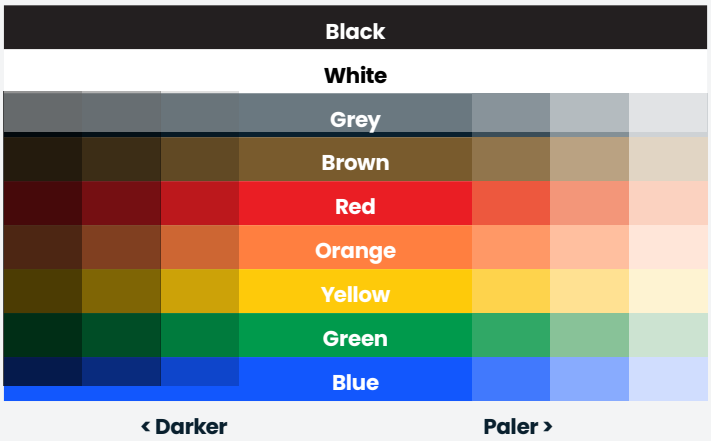
| Symbol | Description |
|---|---|
| | Groundwater level with date observed prior to introduction of fluids or after standpipe construction |
| Not observed | The observation of groundwater, whether present or not, was not possible due to drilling water, surface seepage or cave in of the borehole / test pit. |
| Not en-countered | 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. |

## Core Run

Core lifts are identified by a line and depth. The run number may be shown and total core recovery is shown as a percentage in brackets followed by the RQD percentage unless otherwise indicated.

## 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).




## Description of Soil

i. Soil name
ii. Plasticity or particle size of soil
iii. Colour
iv. Secondary soil components names & estimated proportions including their plasticity / particle characteristics, colour
v. Minor soil components name, estimated proportions, including their plasticity / particle characteristics, colour
vi. Other minor soil components
vii. Structure of soil including zoning, defects & cementing
viii. Additional observations including odour & staining

The origin of soil, soil classification, consistency / density & soil moisture condition are presented separately from the material description.

## 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) |

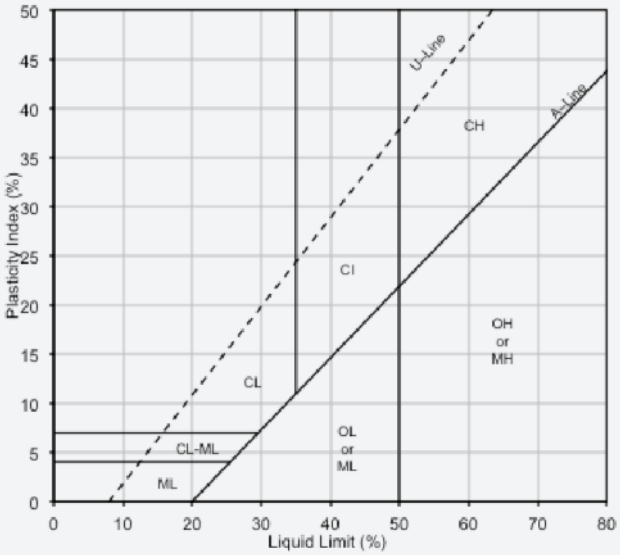
## Descriptive Terms for Secondary and Minor Components

| 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 |
| >35 to ≤ 50 | Medium plasticity |
| > 50 | High plasticity |

## 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 humans |
| **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 | | |

## Description of Rock

i. Rock name
ii. Grain size and mineralogy
iii. Colour
iv. Fabric, bedding and texture
v. Features, inclusions, minor components, moisture condition and durability
vi. Rock mass properties - discontinuities and structure of rock
vii. Additional observations including odour & staining

The origin of rock, interpreted stratigraphic unit, strength weathering and alteration are presented separately from the material description.

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 mm |
| Medium | Mainly 0.2 mm to 0.6 mm |
| Fine | Mainly 0.06 mm (just visible) |

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) |

## 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 |
|---|---|---|---|
| Soil Strength (SS) | <0.6 | <0.03 | Soil strength materials, formerly classified as Extremely Low Strength rock, as to be assigned a soil strength based on the soil characteristics: granular or cohesive. Where strength ranges between soil and Very Low Strength rock, Soil Strength may be used for transitional strengths. |
| 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. Material with strength less than Very Low are described using soil characteristics including consistency / density as detailed on page 4.

## Visual Log

A detailed core photo or 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 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)*<br>Distinctly Altered (DA) | 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) | | 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 | | P | 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 | | J | 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 | | S | 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 | EW | 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.

## Discontinuity Planarity

| Code | Description |
|---|---|
| CU | Curved – A defect with a gradual change in orientation |
| IR | Irregular – A defect with many sharp changes in orientation |
| PR | 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 |

## Discontinuity Roughness

| Code | Description |
|---|---|
| VR | Very rough – many large surface irregularities, amplitude generally more than 1mm |
| RF | 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 rocs along the plane |

## 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. |
| Fold Axis | FX | The orientation of a line representing the location of greatest curvature of a fold |
| Schistosity | SH | A layered arrangement of minerals to each other |
| Foliation | FL | 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 | SI | 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 |

**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 | Moderately Widely Spaced |
| 60 - 200 | Closely Spaced |
| 20 - 60 | Very Closely Spaced |
| <20 | Extremely Closely Spaced |

## Discontinuity Aperture Openness

| Code | Description |
|---|---|
| tight | Nil, Closed |
| very narrow | >0-2 mm, Closed |
| narrow | 2-6 mm, Closed |
| moderately narrow | 6-20 mm, Gapped |
| moderately wide | 20-60 mm, Open |
| wide | 60-200 mm, Open |
| very wide | >200 mm, Open |

## Infill Material

| Code | Name | Code | Name |
|---|---|---|---|
| AM | Azurite / Malachite | Gp | Gypsum |
| Ap | Apatite | He | Hematite |
| Ca | Calcite | Is | Ironstone |
| Co | Coal | Mn | Manganese |
| Ch | Chlorite | Pl | Pyrolusite |
| Cp | Chalcopyrite | Py | Pyrite |
| Cy | Chalcedony | Sd | Siderite |
| Ep | Epidote | Se | Serpentine minerals |
| Fe | Limonite/Goethite | Sp | Sphalerite |
| FeO | Iron oxide | Um | Unidentified mineral |
| Fs | Feldspar (K) | Qz | Quartz |
| FsC | Feldspar (Ca/Na) | X | Carbonaceous |
| Ga | Galena | 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 | VN | A visible coating or soil or mineral substance but usually unable to be measured. If discontinuous over the plane, patchy veneer. |
| Coating | CT | A visible coating up to 1mm thick. Thicker soil material shall be described using defect terms (e.g. infilled seam). Thicker rock strength material shall be described as a vein. |

## Discontinuity Nature

| Code | Description |
|---|---|
| C | Crushed |
| DL | Dilated |
| DS | Displaced |
| HL | Hairline |
| HE | Healed |
| IF | Infilled |
| IT | Intact |

## Samples

| Code | Description |
|---|---|
| B | Bulk disturbed sample |
| BLK | Block sample |
| C | Core sample |
| D | Small disturbed sample |
| ES | Soil sample for environmental testing |
| EW | Water sample for environmental testing |
| G | Gas sample |
| LB | Large bulk disturbed sample |
| P | Piston sample |
| SPTLS | Standard penetration test liner sample |
| U | Undisturbed push in sample |
| U50 | Undisturbed tube sample (50 mm diameter) |
| U75 | Undisturbed tube sample (75 mm diameter) |
| CONCC | Concrete core |
| M | Mazier type sample |

## Field Tests

| Code | Description |
|---|---|
| DCP | Dynamic Cone Penetration test |
| H | Hydraulic fracturing |
| HB | Hammer bouncing |
| PP | Hand penetrometer test |
| $Is_{(50)}$ | Point Load Index |
| K | Permeability |
| N | Standard penetration test result |
| REC | Recovered length of SPT |
| PID | Photoionisation detector reading in ppm |
| R | Refusal |
| SPT | Standard penetration test |
| VS | Vane shear test |
| FP | Pressuremeter |
| ● (A) | Axial Test |
| ○ (D) | Diametral Test |
| □ | Irregular Lump test |
| uL | Lugeon value |

## Laboratory Tests

| Code | Description |
|---|---|
| ACM | Asbestos Containing Material |
| AT+MC | Atterberg Limits + moisture content |
| CD | Consolidated Drained |
| CBR | California Bearing Ratio (4 day, 4.5kg, 98%) |
| Cerchar | Cerchar Abrasivity |
| CU | Consolidated Undrained |
| DS | Direct shear along defect |
| DSI | Direct shear through intact rock |
| DTd | Direct Tensile - defect |
| DTr | Direct Tensile - rock |
| EC | Emerson Class |
| HELD | Sample held at this time for possible later testing |
| LL | Liquid Limit |
| LS | Linear Shrinkage |
| MC | Moisture Content |
| MDD | Maximum Dry Density |
| MSD | Modified slake durability |
| NAGC | Nett Acid Generating Capacity |
| OMC | Optimum Moisture Content |
| PBT | Plate Bearing Test |
| PET | Petrography |
| PHD | Pinhole dispersion |
| PI | Plasticity Index |
| PL | Plastic Limit |
| PSD | Particle Size Distribution |
| PSD+ | PSD + hydrometer |
| $\rho_b$ | Bulk Density |
| $\rho_p$ | Particle Density |
| $\rho_d$ | Dry Density |
| UCS+ | Unconfined Compressive Strength + Youngs Modulus + Poisson's Ratio (rock) + Moisture content + wet density |
| UU | Undrained Unconsolidated |
| TXL | Triaxial (rock) |
| TX | Triaxial (soil) |
| CHEM | Geochemical Testing |
| ■ | UCS Test |

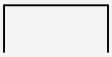
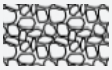
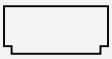
## Types fo Defects - Televiewer logging

| Type | Description |
|---|---|
| BD | Bedding, a depositional fabric in the rock, that is not considered a geotechnical defect as it is closed at the location in which it was observed |
| BN | A distinct boundary between two stratigraphic units |
| BSH | Bedding Shear, a shear connecting bedding surfaces or shearing along a bedding surface |
| CX | A contact between intrusive and stratigraphic units |
| CS | Crush seam, typically sub-horizontal seam with soft infill and possible rock fragments showing evidence of localised crushing at the location in which it was observed |
| CV | Cleavage, a secondary deformation fabric, not inherently part of the deposition fabric of the rock that presents as a surface of weakness or defect |
| FX | Fold axis, not dip and dip direction of a plane but trend and plunge of a line that represents the axis of the folded limbs |
| FT | Fault, a fracture, similar to a joint, but where defined displacement is observed (e.g. through mismatching of bedding across the structure) |
| FT/FZ | A fault or group of closely spaced faults with cumulative defined displacement observed |
| J | Joint, a fracture in the rock with little to no tensile strength |
| P | Parting, as per bedding but forms a defect in the rock as the two sides are separated at the location in which it was observed |
| SM | Clay seam, typically sub-horizontal seam with clay and no evidence of shearing at the location in which it was observed |
| SR | Shear, deformation feature with evidence of movement within the infill zone at the location in which it was observed. Often bounded by discreet structures |
| SR/ SZ | Shear zone, multiple shear features making up a wider zone of deformation |
| SS | Sheared seam, typically sub-horizontal with evidence of movement within the infill zone at the location in which it was observed |
| VE | Vein, open bounding surfaces or vuginess at the location in which it was observed |
| Vc | Vein with closed bounding surfaces at the location i n which it was observed |

## Concrete Bond Logging

| Type | Description |
|---|---|
| BLJ | Bonded Lift Joint |
| ULJ | Unbonded Lift Joint |
| LJ | Lift Joint |

## Backfill / Standpipe Detail

| Symbol | Description |
|---|---|
| | Cement seal |
| | Grout backfill |
| | Blank pipe |
| | Slotted pipe |
|  | Surface Completion: Monument Above Ground |
| | Filter pack: sand filter |
| | Filter pack: gravel filter |
| | Bentonite seal |
|  | Cutting – excavated material backfill |
|  | 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 in the hole | Obstruction preventing further advancement |
| 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 |
| Refusal | Material preventing further advancement |

## Status

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

# ENVIRONMENTAL FIELD LOG - BOREHOLE WITH WELL

| | |
|---|---|
| **HOLE No:** | **BH101** |
| **SHEET No:** | 1 of 1 |
| **PROJECT No:** | ***30013640*** |

*LOG STATUS : finalised by GDM*

PROJECT : New Bankstown Hospital
PURPOSE : Contamination
LOCATION : 500 Chapel Road, Bankstown NSW 2118

CLIENT : Health Infrastructure
POSITION : "E: 318281.470, N: 6246145.279 (MGA2020-56)"
FINAL DEPTH: 12.6m

SURFACE ELEVATION : 50.089 (AHD)
TOP OF CASING: 50.007 (AHD)
ANGLE FROM HORIZONTAL : -90°

| Drilling Method | Depth: Elev (AHD) | Depth: Depth (m) | Water | Moisture Condition | Consistency Density | Graphic Log | MATERIAL: MATERIAL DESCRIPTION (SOIL NAME: plasticity or particle characteristic, colour, secondary and minor components; ROCK NAME: grain size, colour, texture and fabric, features, inclusion and minor components) | Standpipe Construction: Construction Details | Construction notes | OTHER OBSERVATIONS: Notes (Structure, origin, etc) |
|---|---|---|---|---|---|---|---|---|---|---|
| AT | 50 | 0.10m | | | H | | ASPHALT. | BH101 | Concrete: | FILL |
| | | | | | | | FILL CLAY: high plasticity, red-brown, trace fine to medium grained, up to 40mm in size gravel. | | Bentonite: | |
| | | 0.80m | | | | | CLAY: high plasticity, grey mottled orange-brown, trace up to 20mm in size gravel. | | | RESIDUAL SOIL |
| | 48 | 2.0 | | w≈PL | St | | | | | |
| | 46 | 4.0 | | | | | | | | |
| | | 4.50m | | | | | SILTSTONE: fine grained, grey. | | Grout: | SEDIMENTARY |
| | 44 | 6.0 | | D | | | | | | |
| | 42 | 8.0 | | | VSt | | | | | |
| | 40 | 10.0 | 9/1/2025 | | | | | | Bentonite: | |
| | | | | | | | | | Start Slotted 9.6m | |
| | | 11.0 | | W | | | | | Gravel: | |
| | 38 | 12.0 | | | | | | | | |
| | | 12.60m | | | | | MW Terminated at 12.60 m Target Depth (Standpipe Installed) | | End Slotted 12.6m | |
| | 36 | 14.0 | | | | | | | | |

**Notes:** Inflow, Outflow, Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Terratest
EQUIPMENT: Geo-205

COMMENCED: 19/12/2024
COMPLETED: 19/12/2024

LOGGED BY: HW
CHECKED BY: MF

smec

# ENVIRONMENTAL FIELD LOG - BOREHOLE WITH WELL

*LOG STATUS : finalised by GDM*

| | |
|---|---|
| **HOLE No:** | **BH102** |
| **SHEET No:** | 1 of 1 |
| **PROJECT No:** | ***30013640*** |

PROJECT : New Bankstown Hospital
PURPOSE : Contamination
LOCATION : 500 Chapel Road, Bankstown NSW 2118

CLIENT : Health Infrastructure
POSITION : "E: 318287.710, N: 6245874.860 (MGA2020-56)"
FINAL DEPTH: 11.1m

SURFACE ELEVATION : 36.138 (AHD)
TOP OF CASING: 36.023 (AHD)
ANGLE FROM HORIZONTAL : -90°

| Drilling Method | Depth: Elev (AHD) | Depth: Depth (m) | Water | Moisture Condition | Consistency Density | Graphic Log | MATERIAL: MATERIAL DESCRIPTION (SOIL NAME: plasticity or particle characteristic, colour, secondary and minor components; ROCK NAME: grain size, colour, texture and fabric, features, inclusion and minor components) | Standpipe Construction: Construction Details | Construction notes | OTHER OBSERVATIONS: Notes (Structure, origin, etc) |
|---|---|---|---|---|---|---|---|---|---|---|
| AT | 36 | 0.10m | | | | | CONCRETE. | BH102 | Concrete: | EXTREMELY WEATHERED MATERIAL |
| | | 1.0 | | | | | Silty CLAY: medium plasticity, dark grey, (Extremely Weathered). | | Bentonite: | |
| | 34 | 2.0 | | w<PL | VSt | | | | | |
| | | 3.0 | | | | | | | | |
| | 32 | 4.0 | | | | | | | Grout: | |
| | | 5.0 | | | | | | | | |
| | | 5.50m | | | | | | | | SEDIMENTARY |
| | 30 | 6.0 | | | | | SANDSTONE: fine grained, dark grey with orange. | | | |
| | | 7.0 | | D | | | | | Bentonite: | |
| | 28 | 8.0 | | | H | | | | Start Slotted 8.1m | |
| | | 9.0 | 9/1/2025 | | | | | | Gravel: | |
| | 26 | 10.0 | | W | | | | | | |
| | | 11.0 | | | | | 11.10m | | End Slotted 11.1m | |
| | | | | | | | MW Terminated at 11.10 m Target Depth (Standpipe Installed) | | | |
| | 24 | 12.0 | | | | | | | | |
| | | 13.0 | | | | | | | | |
| | 22 | 14.0 | | | | | | | | |

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Terratest
EQUIPMENT: Geo-205

COMMENCED: 19/12/2024
COMPLETED: 19/12/2024

LOGGED BY: HW
CHECKED BY: MF

# ENVIRONMENTAL FIELD LOG - BOREHOLE WITH WELL

smec

| | |
|---|---|
| **HOLE No:** | **BH103** |
| **SHEET No:** | 1 of 1 |
| **PROJECT No:** | ***30013640*** |

*LOG STATUS : finalised by GDM*

PROJECT : New Bankstown Hospital
PURPOSE : Contamination
LOCATION : 500 Chapel Road, Bankstown NSW 2118

CLIENT : Health Infrastructure
POSITION : "E: 318308.110, N: 6245755.610 (MGA2020-56)"
FINAL DEPTH: 14.5m

SURFACE ELEVATION : 32.224 (AHD)
TOP OF CASING: 32.064 (AHD)
ANGLE FROM HORIZONTAL : -90°

| Drilling Method | Depth: Elev (AHD) | Depth: Depth (m) | Water | Moisture Condition | Consistency Density | Graphic Log | MATERIAL: MATERIAL DESCRIPTION (SOIL NAME: plasticity or particle characteristic, colour, secondary and minor components; ROCK NAME: grain size, colour, texture and fabric, features, inclusion and minor components) | Standpipe Construction: Construction Details | Construction notes | OTHER OBSERVATIONS: Notes (Structure, origin, etc) |
|---|---|---|---|---|---|---|---|---|---|---|
| AT | 32 | 0.0 | | M | L | | 0.10m ASPHALT. | BH103 | Concrete: | FILL |
| | | | | | | | 0.30m FILL Sandy GRAVEL: coarse grained, up to 40 mm, dark grey. | | Bentonite: | RESIDUAL SOIL |
| | | 1.0 | | | | | Silty CLAY: low plasticity, orange-brown. | | | |
| | 30 | 2.0 | | w≈PL | St | | | | | |
| | | 3.0 | | | | | 3.40m | | | SEDIMENTARY |
| | | | | | | | SILTSTONE: fine grained, dark grey, orange. | | | |
| | 28 | 4.0 | | | | | | | Grout: | |
| | | 5.0 | | | | | | | | |
| | | 6.0 | | | | | 6.00m | | | |
| | 26 | | | | | | SANDSTONE: medium grained, pale orange with pale grey. | | | |
| | | 7.0 | | D | | | | | | |
| | | 8.0 | | | | | | | Bentonite: | |
| | 24 | | | | | | | | Start Slotted 8.5m | |
| | | 9.0 | | | H | | | | | |
| | | 10.0 | | | | | | | | |
| | 22 | | 9/1/2025 | | | | | | | |
| | | 11.0 | | | | | | | Gravel: | |
| | | 12.0 | | | | | | | | |
| | 20 | | | W | | | | | | |
| | | 13.0 | | | | | | | | |
| | | 14.0 | | | | | | | | |
| | 18 | | | | | | 14.50m | | End Slotted 14.5m | |
| | | | | | | | MW Terminated at 14.50 m Target Depth (Standpipe Installed) | | | |

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Terratest
EQUIPMENT: Geo-205

COMMENCED: 19/12/2024
COMPLETED: 19/12/2024

LOGGED BY: HW
CHECKED BY: MF

# TEST PIT: TP101

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318321.0 m E 6246141.3 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 51.98 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 51.98 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 51.88 | ES 0.10-0.50 m | | | CL | FILL Silty CLAY: low plasticity, dark brown. | w<PL | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 51.68 | | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | D | | |
| | | | | *0.40* | | | | | | | | |
| | | | | 51.58 | | | | CH | CLAY: high plasticity, red-brown. | | | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | | | | | | | | w≈PL | F | |
| | | | 1.0 | | ES 1.00-1.20 m | | | | | | | |
| | | | | *1.20* | | | | | | | | |
| | | | | 50.78 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP102

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318358.8 m E 6246137.7 m N MGA2020-56
Surface RL: 52.32 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 52.32 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | 0.10 | | | | | | | | |
| | | | | 52.22 | ES 0.10-0.50 m | | | CL | FILL Silty CLAY: low plasticity, pale brown, coal inclusions. | w<PL | | FILL |
| | | | | 0.30 | | | | | | | | |
| | | | | 52.02 | | | | CL | FILL Silty CLAY: low plasticity, dark brown. | w<PL | | |
| | | | 0.5 | | | | | | | | | |
| | | | | 0.70 | | | | | | | | |
| | | | | 51.62 | ES 0.70-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w≈PL | F | RESIDUAL SOIL |
| | | | 1.0 | 1.00 | | | | | | | | |
| | | | | 51.32 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP103

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318277.9 m E 6246066.8 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 45.51 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 45.51 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.30* | | | | | | | | |
| | | | 0.5 | 45.21 | ES 0.60-0.70 m | | | CL | FILL CLAY: low plasticity, brown. | w<PL | | FILL |
| | | | 1.0 | *1.10* | | | | | | | | |
| | | | | 44.41 | ES 1.30-1.50 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.5 | *1.50* | | | | | | | | |
| | | | | 44.01 | | | | | TP Terminated at 1.50 m<br>Target Depth | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP104

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318300.8 m E 6246075.4 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 46.50 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 46.50 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 46.40 | | | | SP | FILL Gravelly SAND: medium grained, brown, gravel is angular, 20mm in size. | | | FILL |
| | | | | | ES 0.20-0.60 m | | | | | M | | |
| | | | 0.5 | | | | | | | | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 45.70 | | | | CH | CLAY: high plasticity, brown-red mottled grey. | | | RESIDUAL SOIL |
| | | | | | ES 0.90-1.20 m | | | | | | | |
| | | | 1.0 | | | | | | | w≈PL | St | |
| | | | | *1.20* | | | | | | | | |
| | | | | 45.30 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP105

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318271.9 m E 6246052.2 m N MGA2020-56
Surface RL: 44.60 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 44.60 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.20* 44.40 | | | | SP | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods), ACM observed. | | | FILL |
| | | | 0.5 | | ES 0.40-0.60 m | | | | | D | | |
| | | | 1.0 | *1.10* 43.50 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.5 | | ES 1.40-1.50 m | | | | | | | |
| | | | | *1.60* 43.00 | | | | | TP Terminated at 1.60 m Target Depth | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP106

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318298.4 m E 6246053.2 m N MGA2020-56
Surface RL: 45.00 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 45.00 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 44.90 | ES 0.10-0.50 m | | | SP | FILL Gravelly SAND: medium grained, brown, gravel is angular, 20mm in size. | M | | FILL |
| | | | | *0.50* | | | | | | | | |
| | | | 0.5 | 44.50 | | | | CH | CLAY: high plasticity, brown-red mottled grey. | w≈PL | St | RESIDUAL SOIL |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 44.00 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP107

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318349.3 m E 6246082.7 m N MGA2020-56
Surface RL: 48.15 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450 Bucket | | Not Encountered | 0.0 | 48.15 | ES 0.10-0.20 m | | | CL | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods), ACM observed. | w<PL | | FILL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | | | |
| | | | | *0.90* 47.25 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.0 | | ES 1.10-1.20 m | | | | | | | |
| | | | | *1.20* 46.95 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP108

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318280.4 m E 6246146.0 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 50.01 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 11/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 50.01 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 49.91 | | | | CL | FILL Silty CLAY: low plasticity, dark brown. | w<PL | | FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 49.81 | ES 0.20-0.50 m | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | D | | |
| | | | | *0.30* | | | | | | | | |
| | | | | 49.71 | | | | CH | CLAY: high plasticity, red-brown. | w≈PL | F | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | | *0.60* | | | | | | | | |
| | | | | 49.41 | ES 0.60-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 49.01 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP109

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318329.7 m E 6246013.4 m N MGA2020-56
Surface RL: 40.81 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 40.81 | | | | | PAVERS. | | | CONCRETE |
| | | | | *0.10* 40.71 | | | | CL | FILL Sandy CLAY: low plasticity, brown, trace building materials (brick and tile). | w<PL | | FILL |
| | | | 0.5 | | ES 0.20-0.30 m | | | | | | | |
| | | | | *0.70* 40.11 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | | ES 0.90-1.00 m | | | | | | | |
| | | | 1.0 | *1.00* 39.81 | | | | | TP Terminated at 1.00 m Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP110

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318263.3 m E 6245993.9 m N MGA2020-56
Surface RL: 40.70 m AHD
Contractor: Terratest
Machine: Geo-205 Bucket Size: 300m auger

Date: 9/12/2024
Logged: LR

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 250mm Auger | | Not Encountered | 0.0 | 40.70 | | | | | CONCRETE. | | | CONCRETE |
| | | | | *0.10* | | | | | | | | |
| | | | | 40.60 | ES 0.10-0.20 m | | | SP | FILL SAND: brown. | M | | FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 40.50 | | | | CH | CLAY: high plasticity, red. | | | RESIDUAL SOIL |
| | | | 0.5 | | ES 0.60-0.70 m | | | | | w≈PL | F | |
| | | | | *0.80* | | | | | | | | |
| | | | | 39.90 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP111

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318294.0 m E 6245992.7 m N MGA2020-56
Surface RL: 40.90 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.90 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* | ES 0.05-0.10 m | | | | | | | |
| | | | | 40.80 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, metal rods). One fragment of ACM observed in good condition. | w<PL | | FILL |
| | | | | | ES 0.40-0.50 m | | | | | | | |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 40.40 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | *0.80* | | | | | | | | |
| | | | | 40.10 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP112

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318303.2 m E 6245977.6 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 41.02 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 41.02 | ES 0.05-0.10 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* 40.92 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, metal rods). Two fragments of ACM observed in good condition. | | | FILL |
| | | | | | ES 0.30-0.40 m | | | | | w<PL | | |
| | | | 0.5 | *0.50* 40.52 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | | | | | | | | w<PL | F | |
| | | | | | ES 0.90-1.00 m | | | | | | | |
| | | | 1.0 | *1.00* 40.02 | | | | | TP Terminated at 1.00 m Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP113

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318297.6 m E 6245961.6 m N MGA2020-56
Surface RL: 40.94 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.94 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* 40.84 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile). | | | FILL |
| | | | | | ES 0.30-0.40 m | | | | | w<PL | | |
| | | | 0.5 | *0.50* 40.44 | | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | | | |
| | | | | | ES 0.60-0.70 m | | | | | D | | |
| | | | | *0.80* 40.14 | | | | CL | CLAY: low plasticity, pale brown. | | | RE-WORKED RESIDUAL |
| | | | 1.0 | | | | | | | w<PL | VSt | |
| | | | | *1.20* 39.74 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP114

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318291.1 m E 6245953.0 m N MGA2020-56
Surface RL: 40.85 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.85 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.20* 40.65 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, metal rods). | | | FILL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | | | |
| | | | 1.0 | | | | | | | w<PL | | |
| | | | 1.5 | | ES 1.50-1.60 m | | | | | | | |
| | | | | *1.80* 39.05 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 2.0 | | ES 2.10-2.20 m | | | | | | | |
| | | | | *2.20* 38.65 | | | | | TP Terminated at 2.20 m Target Depth | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP115

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318302.1 m E 6245953.2 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 40.80 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.80 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 40.60 | ES 0.30-0.40 m | | | CL | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods). One fragment of ACM observed in good condition. | w<PL | | FILL |
| | | | | *0.40* | | | | | | | | |
| | | | | 40.40 | | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | D | | |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 40.30 | ES 0.80-0.90 m | | | CL | CLAY: low plasticity, pale brown. | w<PL | VSt | REWORKED RESIDUAL |
| | | | 1.0 | | | | | | | | | |
| | | | | *1.10* | | | | | | | | |
| | | | | 39.70 | ES 1.30-1.40 m | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 1.5 | *1.50* | | | | | | | | |
| | | | | 39.30 | | | | | TP Terminated at 1.50 m<br>Target Depth | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP116

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318330.5 m E 6245974.5 m N MGA2020-56
Surface RL: 41.07 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 41.07 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 40.77 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, terracotta). | | | FILL |
| | | | 0.5 | | ES 0.60-0.70 m | | | | | w<PL | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 40.27 | | | | CH | CLAY: high plasticity, red-brown. | w≈PL | F | RESIDUAL SOIL |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 40.07 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP117

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318337.9 m E 6245947.6 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 41.03 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 41.03 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.30* 40.73 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | w<PL | F | |
| | | | | *0.70* 40.33 | | | | | TP Terminated at 0.70 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP118

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318273.1 m E 6245942.6 m N MGA2020-56
Surface RL: 40.35 m AHD
Contractor: Terratest
Machine: Geo-205 Bucket Size: 300m auger

Date: 9/12/2024
Logged: PP

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| DT | | | 0.0 | 40.35 | | | | | CONCRETE: grey, 30% aggregate 70% matrix, fine to medium grained angular gravel. | | | CONCRETE |
| | | | | *0.10* | | | | | | | | |
| AD/T | | Not Encountered | | 40.25 | | | | SP | FILL Gravelly SAND: fine to medium grained, dark grey. | M | L | FILL |
| | | | | | ES 0.30-0.40 m | | | | | | | |
| | | | | *0.40* | | | | | | | | |
| | | | | 39.95 | | | | CL | FILL CLAY: low plasticity, dark brown, trace rounded, 40mm in size gravel. | w≈PL | F | |
| | | | 0.5 | | ES 0.70-0.80 m | | | | | | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 39.55 | | | | CH | CLAY: high plasticity, red-brown. | w≈PL | F | RESIDUAL SOIL |
| | | | 1.0 | | | | | | | | | |
| | | | | *1.20* | | | | | | | | |
| | | | | 39.15 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP119

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318285.4 m E 6245932.7 m N MGA2020-56
Surface RL: 40.44 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.44 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* 40.34 | | | | CL | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods). One fragment of ACM observed during backfill. | | | FILL |
| | | | 0.5 | | ES 0.25-0.35 m | | | | | w<PL | F | |
| | | | | | ES 0.80-0.90 m | | | | | | | |
| | | | 1.0 | *1.00* 39.44 | | | | | TP Terminated at 1.00 m<br>Possible services | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP120

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318324.4 m E 6245880.9 m N MGA2020-56
Surface RL: 37.04 m AHD
Contractor: Terratest
Machine: Geo-205 Bucket Size: 300m auger

Date: 10/12/2024
Logged: LR

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 250mm Auger | | Not Encountered | 0.0 | 37.04 | | | | | CONCRETE. | | | CONCRETE |
| | | | | 0.18 | | | | | | | | |
| | | | | 36.86 | | | | CI | CLAY WITH COBBLES: medium plasticity, dark grey, orange, cobbles are uniform, fine grained, angular to sub-angular; (Extremely Weathered). | | | EXTREMELY WEATHERED MATERIAL |
| | | | | | ES 0.30-0.40 m | | | | | | | |
| | | | 0.5 | | | | | | | w≈PL | | |
| | | | 1.0 | 1.00 | | | | | | | | |
| | | | | 36.04 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP121

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318269.3 m E 6245852.1 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 34.70 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 34.70 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 34.60 | ES 0.10-0.30 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 34.40 | ES 0.30-0.50 m | | | CH | CLAY: high plasticity, dark grey. | w≈PL | | RE-WORKED RESIDUAL |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 34.20 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 33.70 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP122

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318295.4 m E 6245852.6 m N MGA2020-56
Surface RL: 35.74 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 35.74 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 35.64 | ES 0.10-0.50 m | | | SP | FILL Gravelly SAND: medium grained, grey, one fragment of ACM observed in good condition. | D | | FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 35.54 | | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 35.24 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 34.74 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP123

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318311.3 m E 6245852.1 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 36.17 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 36.17 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 36.07 | ES 0.10-0.40 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.40* | | | | | | | | |
| | | | 0.5 | 35.77 | ES 0.40-0.80 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 35.17 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP124

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318268.4 m E 6245834.6 m N MGA2020-56
Surface RL: 33.89 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 33.89 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | 0.10 | | | | | | | | |
| | | | | 33.79 | ES 0.10-0.30 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | 0.30 | | | | | | | | |
| | | | | 33.59 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | w<PL | F | |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | | 1.00 | | | | | | | | |
| | | | 1.0 | 32.89 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP125

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318284.6 m E 6245830.1 m N MGA2020-56
Surface RL: 34.60 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 34.60 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 34.50 | ES 0.10-0.30 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | 0.5 | 34.30 | ES 0.30-0.80 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | *0.80* | | | | | | | | |
| | | | | 33.80 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP126

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318306.9 m E 6245828.4 m N MGA2020-56
Surface RL: 35.23 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 35.23 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* 35.13 | ES 0.10-0.40 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.40* 34.83 | ES 0.40-0.70 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | 1.0 | *1.00* 34.23 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP127

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318238.1 m E 6245812.7 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 32.11 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 11/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 32.11 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 32.01 | ES 0.10-0.30 m | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | | *0.30* | | | | | | | | |
| | | | | 31.81 | | | | CL | FILL Sandy CLAY: low plasticity, sand is medium grained; trace 40mm in size gravel; glass and terracotta inclusions. | | | FILL |
| | | | 0.5 | | ES 0.40-0.90 m | | | | | w<PL | | |
| | | | | *0.90* | | | | | | | | |
| | | | | 31.21 | ES 0.90-1.20 m | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 1.0 | | | | | | | w<PL | F | |
| | | | | *1.20* | | | | | | | | |
| | | | | 30.91 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP128

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318282.4 m E 6245804.5 m N MGA2020-56
Surface RL: 33.74 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 33.74 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* 33.64 | ES 0.10-0.40 m | | | CI | FILL Gravelly CLAY: medium plasticity, dark grey, gravel is 30mm in size. | w≈PL | | FILL |
| | | | | *0.40* 33.34 | ES 0.40-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | 1.0 | *1.00* 32.74 | | | | | TP Terminated at 1.00 m Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP129

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318307.8 m E 6245792.3 m N MGA2020-56
Surface RL: 33.76 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 33.76 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | 0.10 | | | | | | | | |
| | | | | 33.66 | ES 0.10-0.50 m | | | SP | FILL SAND: medium grained, grey. | D | | FILL |
| | | | | 0.30 | | | | | | | | |
| | | | | 33.46 | | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | 0.5 | 0.50 | | | | | | | | |
| | | | | 33.26 | ES 0.50-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | 1.00 | | | | | | | | |
| | | | 1.0 | 32.76 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP130

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318239.7 m E 6245765.7 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 30.86 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 11/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 30.86 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 30.76 | ES 0.10-0.60 m | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | | *0.30* | | | | | | | | |
| | | | | 30.56 | | | | CI | FILL Sandy CLAY: medium plasticity, brown, sand is medium grained; terracotta inclusions. | w≈PL | | FILL |
| | | | 0.5 | | | | | | | | | |
| | | | | *0.60* | | | | | | | | |
| | | | | 30.26 | ES 0.60-1.20 m | | | CH | CLAY: high plasticity, pale brown. | w≈PL | St | RESIDUAL SOIL |
| | | | 1.0 | | | | | | | | | |
| | | | | *1.20* | | | | | | | | |
| | | | | 29.66 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP131

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318282.0 m E 6245760.0 m N MGA2020-56
Surface RL: 32.08 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 32.08 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 31.98 | ES 0.10-0.50 m | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | | *0.30* | | | | | | | | |
| | | | | 31.78 | | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.50* | | | | | | | | |
| | | | 0.5 | 31.58 | ES 0.50-1.10 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.0 | *1.10* | | | | | | | | |
| | | | | 30.98 | | | | | TP Terminated at 1.10 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP132

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318311.0 m E 6245762.7 m N MGA2020-56
Surface RL: 32.54 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 32.54 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, brown. | w<PL | | TOPSOIL FILL |
| | | | | | ES 0.20-0.30 m | | | | | | | |
| | | | | *0.30* | | | | | | | | |
| | | | | 32.24 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | w<PL | F | |
| | | | | *0.80* | | | | | | | | |
| | | | | 31.74 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

Appendix G

# Field Monitoring Results

Member of the Surbana Jurong Group

# Groundwater Sampling Field Record

## Project Information

| | |
|---|---|
| **Project Name** | Bankstown New Hospital |
| **Site Name** | 500 Chapel Road, Bankstown NSW 2137 |
| **Project Number** | 30013640 |
| **Client** | HINSW |
| **Date** | 2025-01-09 |
| **Sampled By** | Harrison Wood and Steven Drysdale |

## Bore Details

| | |
|---|---|
| **Bore ID** | BH102 |
| **Well Casing Diameter (mm)** | 50 |
| **Casing Stickup/Down (m) (+ve for above ground and -ve for below ground)** | Refer to Logs |
| **Odour When Opening Well** | No |
| **Depth of Well (mBTOC)** | 11.23 |
| **Depth to NAPL (mBTOC)** | Not measured |
| **Depth to Water (mBTOC)** | 7.44 |
| **PID (ppm)** | - |
| **Bore Condition** | Good |
| **Other Comments** | |
| **General Photos** | Photo 1 |

## Surface Type

| | |
|---|---|
| **Monument** | No |
| **Gatic Covered** | Yes |
| **Stand Pipe** | No |

## General Environmental Conditions

| | |
|---|---|
| **Temperature** | Mild (<25°C) |
| **Wind** | Still |
| **Sky** | Scattered |
| **Air** | Medium |
| **Barometric Pressure** | - |

## Purge details

| | |
|---|---|
| **Method** | Bladder pump |
| **Flow cell used** | No |
| **Depth of sampling inlet (mbTOC)** | 10.7 |
| **Did the well purge dry?** | No |
| **Are field results acceptable to allow sampling?** | Yes |

## Low Flow Methods

| | |
|---|---|
| **1x Equipment Purge Volume** | 1L |
| **Drive setting (sec)** | - |
| **Vent setting (sec)** | - |

## Field Results

| Time | Flow Rate (L/min) | Cumulative Purged Volume (L) | SWL (mBTOC) | pH (+/- 0.5) | EC (S/cm) (+/- 3%) | Redox (mV) (+/- 10mV) | DO (mg/L) (+/- 10%) | Temperature (°C) (+/- 3%) | Notes (colour, odour, sheen, clarity etc) |
|---|---|---|---|---|---|---|---|---|---|
| 10:03 | 0.2 | 1 | 7.31 | 6.73 | 14154 | 41.8 | 24.9 | 20.4 | Clear, no sheen, |
| 10:10 | 0.2 | 2.4 | 7.59 | 6.72 | 14316 | 29.2 | 6 | 20.1 | No colour, clear, no odour |
| 10:17 | 0.2 | 3.8 | 7.68 | 6.74 | 14283 | 28.4 | 6.1 | 20.1 | Clear, no sheen, no odour, no colour |

## Sampling Details

| | |
|---|---|
| **Method** | Bladder pump |
| **Equipment** | Disposable |
| **Tubing type used** | HDPE |
| **Flow rate (if using low flow methods) (L/min)** | 0.2 |
| **Duplicate ID** | - |
| **Triplicate ID** | N/A |

**Photo 1**

Member of the Surbana Jurong Group

# Groundwater Sampling Field Record

## Project Information

| | |
|---|---|
| **Project Name** | Bankstown New Hospital |
| **Site Name** | 500 Chapel Road, Bankstown NSW |
| **Project Number** | 30013046 |
| **Client** | HINSW |
| **Date** | 2025-01-09 |
| **Sampled By** | Harrison Wood |

## Bore Details

| | |
|---|---|
| **Bore ID** | BH103 |
| **Well Casing Diameter (mm)** | 50 |
| **Casing Stickup/Down (m) (+ve for above ground and -ve for below ground)** | Refer to Logs |
| **Odour When Opening Well** | No |
| **Depth of Well (mBTOC)** | 14.53 |
| **Depth to NAPL (mBTOC)** | Not measured |
| **Depth to Water (mBTOC)** | 8.06 |
| **PID (ppm)** | - |
| **Bore Condition** | Good |
| **Other Comments** | |
| **General Photos** | Photo 1 |

## Surface Type

| | |
|---|---|
| **Monument** | No |
| **Gatic Covered** | Yes |
| **Stand Pipe** | No |

## General Environmental Conditions

| | |
|---|---|
| **Temperature** | Mild (<25°C) |
| **Wind** | Still |
| **Sky** | Clear |
| **Air** | Humid |
| **Barometric Pressure** | - |

## Purge details

| | |
|---|---|
| **Method** | Bladder pump |
| **Flow cell used** | No |
| **Depth of sampling inlet (mbTOC)** | 14.03 |
| **Did the well purge dry?** | No |
| **Are field results acceptable to allow sampling?** | Yes |

## Low Flow Methods

| | |
|---|---|
| **1x Equipment Purge Volume** | 1L |
| **Drive setting (sec)** | - |
| **Vent setting (sec)** | - |

## Field Results

| Time | Flow Rate (L/min) | Cumulative Purged Volume (L) | SWL (mBTOC) | pH (+/- 0.5) | EC (S/cm) (+/- 3%) | Redox (mV) (+/- 10mV) | DO (mg/L) (+/- 10%) | Temperature (°C) (+/- 3%) | Notes (colour, odour, sheen, clarity etc) |
|---|---|---|---|---|---|---|---|---|---|
| 12:05 | 0.2 | 1 | 8.28 | 6.88 | 13044 | -15.7 | 26.2 | 22.1 | No colour, no sheen, clear, no odour |
| 12:11 | 0.2 | 2.2 | 8.35 | 6.89 | 13233 | -72.8 | 7.3 | 22.3 | No colour, clear, no odour, no sheen |
| 12:20 | 0.2 | 4 | 8.46 | 6.89 | 13282 | -71.7 | 4.2 | 22.8 | No colour, no sheen, no odour |

## Sampling Details

| | |
|---|---|
| **Method** | Bladder pump |
| **Equipment** | Disposable |
| **Tubing type used** | HDPE |
| **Flow rate (if using low flow methods) (L/min)** | 0.2 |
| **Duplicate ID** | - |
| **Triplicate ID** | N/A |

| Photo 1 | |
|---|---|

Member of the Surbana Jurong Group

# Groundwater Sampling Field Record

## Project Information

| | |
|---|---|
| **Project Name** | Bankstown New Hospital |
| **Site Name** | 500 Chapel Street, Bankstown NSW 2137 |
| **Project Number** | 30013640 |
| **Client** | HINSW |
| **Date** | 2025-01-09 |
| **Sampled By** | Harrison Wood |

## Bore Details

| | |
|---|---|
| **Bore ID** | BH101 |
| **Well Casing Diameter (mm)** | 50 |
| **Casing Stickup/Down (m) (+ve for above ground and -ve for below ground)** | Refer to Logs |
| **Odour When Opening Well** | No |
| **Depth of Well (mBTOC)** | 12.5 |
| **Depth to NAPL (mBTOC)** | Not Measured |
| **Depth to Water (mBTOC)** | 9.06 |
| **PID (ppm)** | - |
| **Bore Condition** | Good |
| **Other Comments** | |
| **General Photos** | Photo 1 |

## Surface Type

| | |
|---|---|
| **Monument** | No |
| **Gatic Covered** | Yes |
| **Stand Pipe** | No |

## General Environmental Conditions

| | |
|---|---|
| **Temperature** | Mild (<25°C) |
| **Wind** | Slight Breeze |
| **Sky** | Scattered |
| **Air** | Humid |
| **Barometric Pressure** | - |

## Purge details

| | |
|---|---|
| **Method** | Bladder pump |
| **Flow cell used** | No |
| **Depth of sampling inlet (mbTOC)** | 12 |
| **Did the well purge dry?** | No |
| **Are field results acceptable to allow sampling?** | Yes |

## Low Flow Methods

| | |
|---|---|
| **1x Equipment Purge Volume** | 1L |
| **Drive setting (sec)** | - |
| **Vent setting (sec)** | - |

## Field Results

| Time | Flow Rate (L/min) | Cumulative Purged Volume (L) | SWL (mBTOC) | pH (+/- 0.5) | EC (S/cm) (+/- 3%) | Redox (mV) (+/- 10mV) | DO (mg/L) (+/- 10%) | Temperature (°C) (+/- 3%) | Notes (colour, odour, sheen, clarity etc) |
|---|---|---|---|---|---|---|---|---|---|
| 13:41 | 0.2 | 1 | 8.83 | 7.11 | 12233 | -32.9 | 20.6 | 22.3 | Clear, no odour, no sheen, no colour |
| 13:45 | 0.2 | 1.8 | 8.98 | 7.09 | 12630 | -54.8 | 6.4 | 22.7 | No colour, no odour, clear, no sheen |
| 13:48 | 0.2 | 2.4 | | 7.09 | 12640 | -58.9 | 5.2 | 22.5 | No colour, clear, no sheen, no odour |

## Sampling Details

| | |
|---|---|
| **Method** | Bladder pump |
| **Equipment** | Disposable |
| **Tubing type used** | HDPE |
| **Flow rate (if using low flow methods) (L/min)** | 0.2 |
| **Duplicate ID** | QA01 |
| **Triplicate ID** | N/A |

**Photo 1**

## PID Soil Headspace Screening- SUMMARY SHEET

| | |
|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI |
| SITE LOCATION: | 490 Chapel Road, Bankstown NSW 2200 |
| PROJECT No: | 30013640 |
| CLIENT: | HINSW |

| Test Pit Location ID | Date measured | Reading measured at: | VOC (ppm): | Duration (mins) | Comments |
|---|---|---|---|---|---|
| TP101-0.1-0.5 | 9/12/2024 | Soil headspace | 0.6 | 0.50 | |
| TP101-1.0-1.2 | 9/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP102-0.1-0.5 | 9/12/2024 | Soil headspace | 3.2 | 0.50 | |
| TP102-0.7-1.0 | 9/12/2024 | Soil headspace | 1.9 | 0.50 | |
| TP103-0.1-0.2 | 9/12/2024 | Soil headspace | 1.0 | 0.50 | |
| TP103-0.6-0.7 | 9/12/2024 | Soil headspace | 1.3 | 0.50 | |
| TP103-1.3-1.5 | 9/12/2024 | Soil headspace | 4.2 | 0.50 | |
| TP104-0.2-0.6 | 9/12/2024 | Soil headspace | 0.8 | 0.50 | |
| TP104-0.9-1.2 | 9/12/2024 | Soil headspace | 1.1 | 0.50 | |
| TP105-0.1-0.2 | 10/12/2024 | Soil headspace | 1.8 | 0.50 | |
| TP105-0.4-0.5 | 10/12/2024 | Soil headspace | 0.5 | 0.50 | |
| TP105-1.4-1.5 | 10/12/2024 | Soil headspace | 0.6 | 0.50 | |
| TP106-0.1-0.5 | 9/12/2024 | Soil headspace | 1.4 | 0.50 | |
| TP106-0.8-1.0 | 9/12/2024 | Soil headspace | 1.5 | 0.50 | |
| TP107-0.1-0.2 | 10/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP107-0.5-0.6 | 10/12/2024 | Soil headspace | 1.1 | 0.50 | |
| TP107-1.1-1.2 | 10/12/2024 | Soil headspace | 1.8 | 0.50 | |
| TP108-0.2-0.5 | 11/12/2024 | Soil headspace | 0.6 | 0.50 | |
| TP108-0.6-1.0 | 11/12/2024 | Soil headspace | 0.7 | 0.50 | |
| TP109-0.2-0.3 | 9/12/2024 | Soil headspace | 1.9 | 0.50 | |
| TP109-0.9-1.0 | 9/12/2024 | Soil headspace | 0.5 | 0.50 | |
| TP110-0.1-0.2 | 9/12/2024 | Soil headspace | 1.9 | 0.50 | |
| TP110-0.6-0.7 | 9/12/2024 | Soil headspace | 2.4 | 0.50 | |
| TP111-0.05-0.1 | 9/12/2024 | Soil headspace | 4.5 | 0.50 | |
| TP111-0.4-0.5 | 9/12/2024 | Soil headspace | 6.2 | 0.50 | |
| TP112-0.05-0.1 | 9/12/2024 | Soil headspace | 0.9 | 0.50 | |
| TP112-0.3-0.4 | 9/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP112-0.9-1.0 | 9/12/2024 | Soil headspace | 1.6 | 0.50 | |
| TP113-0.3-0.4 | 9/12/2024 | Soil headspace | 2.0 | 0.50 | |
| TP113-0.6-0.7 | 9/12/2024 | Soil headspace | 0.8 | 0.50 | |
| TP113-1.0-1.1 | 9/12/2024 | Soil headspace | 2.1 | 0.50 | |
| TP114-0.1-0.2 | 9/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP114-0.5-0.6 | 9/12/2024 | Soil headspace | 1.8 | 0.50 | |
| TP114-1.0-1.1 | 9/12/2024 | Soil headspace | 3.6 | 0.50 | |
| TP114-2.1-2.2 | 9/12/2024 | Soil headspace | 4.2 | 0.50 | |
| TP115-0.3-0.4 | 9/12/2024 | Soil headspace | 1.9 | 0.50 | |
| TP115-0.8-0.9 | 9/12/2024 | Soil headspace | 0.8 | 0.50 | |
| TP115-1.3-1.4 | 9/12/2024 | Soil headspace | 3.4 | 0.50 | |
| TP116-0.1-0.2 | 9/12/2024 | Soil headspace | 6.1 | 0.50 | |
| TP116-0.6-0.7 | 9/12/2024 | Soil headspace | 2.8 | 0.50 | |
| TP117-0.1-0.2 | 9/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP117-0.5-0.6 | 9/12/2024 | Soil headspace | 3.0 | 0.50 | |
| TP118-0.3-0.4 | 9/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP118-0.7-0.8 | 9/12/2024 | Soil headspace | 2.1 | 0.50 | |
| TP119-0.2-0.3 | 9/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP119-0.8-0.9 | 9/12/2024 | Soil headspace | 2.4 | 0.50 | |
| TP120-0.3-0.4 | 10/12/2024 | Soil headspace | 2.1 | 0.50 | |
| TP121-0.1-0.3 | 10/12/2024 | Soil headspace | 3.7 | 0.50 | |
| TP121-0.3-0.5 | 10/12/2024 | Soil headspace | 3.0 | 0.50 | |
| TP121-0.8-1.0 | 10/12/2024 | Soil headspace | 1.6 | 0.50 | |
| TP122-0.1-0.5 | 10/12/2024 | Soil headspace | 1.6 | 0.50 | |
| TP122-0.8-1.0 | 10/12/2024 | Soil headspace | 1.5 | 0.50 | |
| TP123-0.1-0.4 | 10/12/2024 | Soil headspace | 3.6 | 0.50 | |
| TP123-0.4-0.7 | 10/12/2024 | Soil headspace | 0.9 | 0.50 | |
| TP124-0.1-0.3 | 10/12/2024 | Soil headspace | 4.9 | 0.50 | |
| TP124-0.8-1.0 | 10/12/2024 | Soil headspace | 2.3 | 0.50 | |
| TP125-0.1-0.3 | 10/12/2024 | Soil headspace | 0.6 | 0.50 | |
| TP125-0.4-0.8 | 10/12/2024 | Soil headspace | 0.6 | 0.50 | |
| TP126-0.1-0.4 | 10/12/2024 | Soil headspace | 1.2 | 0.50 | |
| TP126-0.4-0.6 | 10/12/2024 | Soil headspace | 1.0 | 0.50 | |
| TP127-0.1-0.3 | 11/12/2024 | Soil headspace | 1.2 | 0.50 | |

## PID Soil Headspace Screening- SUMMARY SHEET

| | |
|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI |
| SITE LOCATION: | 490 Chapel Road, Bankstown NSW 2200 |
| PROJECT No: | 30013640 |
| CLIENT: | HINSW |

| Test Pit Location ID | Date measured | Reading measured at: | VOC (ppm): | Duration (mins) | Comments |
|---|---|---|---|---|---|
| TP127-0.4-0.9 | 11/12/2024 | Soil headspace | 3.4 | 0.50 | |
| TP127-0.9-1.2 | 11/12/2024 | Soil headspace | 0.6 | 0.50 | |
| TP128-0.1-0.4 | 11/12/2024 | Soil headspace | 1.0 | 0.50 | |
| TP128-0.4-1.0 | 11/12/2024 | Soil headspace | 3.2 | 0.50 | |
| TP129-0.1-0.5 | 11/12/2024 | Soil headspace | 0.5 | 0.50 | |
| TP129-0.5-1.0 | 11/12/2024 | Soil headspace | 0.9 | 0.50 | |
| TP130-0.1-0.6 | 11/12/2024 | Soil headspace | 3.3 | 0.50 | |
| TP130-0.6-1.0 | 11/12/2024 | Soil headspace | 1.6 | 0.50 | |
| TP131-0.1-0.5 | 11/12/2024 | Soil headspace | 1.3 | 0.50 | |
| TP131-0.5-1.1 | 11/12/2024 | Soil headspace | 0.9 | 0.50 | |
| TP132-0.2-0.3 | 11/12/2024 | Soil headspace | 0.8 | 0.50 | |
| TP132-0.5-0.6 | 11/12/2024 | Soil headspace | 0.9 | 0.50 | |

**Calibration Details:** Refer to attached calibration record certificate.

Appendix H

# Analytical Summary Tables

| | | | Metals | | | | | | | | | | | TRH | | | | | | | TF | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Cadmium | Calcium (filtered) | Chromium (III+VI) | Copper | Iron | Lead | Magnesium (filtered) | Mercury | Nickel | Potassium (filtered) | Zinc | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | 1 | 0.3 | 2 | 0.5 | 0.5 | 50 | 1 | 2 | 0.05 | 0.5 | 2 | 2 | 20 | 20 | 25 | 25 | 90 | 100 | 100 | 100 | 20 | 20 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | | | 3,000 | 900 | | | 240,000 | | 1,500 | | 730 | 6,000 | | 400,000 | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | | | 300 | 90 | | | 17,000 | | 600 | | 80 | 1,200 | | 30,000 | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | 260 | | NL | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | NL | | NL | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | NL | | NL | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | | | 160 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | | | 100 | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | 580 | 170 | | | | | 230 | | 420 | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | 970 | 240 | | | | | 390 | | 610 | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | 215 | 170 | 170 | 2,500 | 6,600 | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | 180 | 120 | 120 | 1,300 | 5,600 | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | 700 | | 1,000 | | 3500 | 10,000 | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | 700 | | 1,000 | | 2500 | 10,000 | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | 1.5 | - | 9.2 | 33 | - | 45 | - | 0.13 | 29 | - | 89 | <25 | <25 | <25 | <25 | 100 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | <0.3 | - | 12 | 14 | - | 26 | - | <0.05 | 7.7 | - | 59 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | <0.3 | - | 5.8 | 55 | - | 2 | - | <0.05 | 74 | - | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.3 | - | 6.4 | 51 | - | 2 | - | <0.05 | 37 | - | 27 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | 0.8 | - | 11 | 15 | - | 28 | - | 0.06 | 12 | - | 45 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | <0.3 | - | 15 | 16 | - | 15 | - | <0.05 | 3.5 | - | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | <0.3 | - | 13 | 21 | - | 26 | - | 0.07 | 17 | - | 50 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | <0.3 | - | 17 | 19 | - | 14 | - | <0.05 | 7.0 | - | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.3 | - | 7.6 | 29 | - | 11 | - | 0.09 | 26 | - | 52 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | <0.3 | - | 12 | 26 | - | 15 | - | <0.05 | 8.9 | - | 35 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | <0.3 | - | 20 | 12 | - | 18 | - | <0.05 | 5.7 | - | 20 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.3 | 5,700 | 21 | 30 | 19,000 | 130 | 91 | 0.20 | 18 | 150 | 160 | <25 | <25 | <25 | <25 | 130 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | <0.3 | - | 12 | 25 | - | 86 | - | 0.17 | 13 | - | 130 | <25 | <25 | <25 | <25 | 92 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | <0.3 | - | 7.8 | 31 | - | 80 | - | 0.15 | 12 | - | 220 | <25 | <25 | <25 | <25 | 91 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | <0.3 | - | 19 | 15 | - | 21 | - | <0.05 | 5.4 | - | 32 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | <0.3 | 1,300 | 5.2 | 27 | 8,000 | 80 | 100 | 0.17 | 3.9 | 190 | 91 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | <0.3 | - | 12 | 20 | - | 14 | - | <0.05 | 4.5 | - | 28 | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | <0.3 | - | 7.6 | 33 | - | 42 | - | 0.07 | 9.2 | - | 61 | <25 | <25 | <25 | <25 | 110 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | <0.3 | - | 1.9 | 18 | - | 9 | - | <0.05 | 1.7 | - | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | <0.3 | - | 13 | 12 | - | 26 | - | <0.05 | 5.3 | - | 38 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | <0.3 | - | 11 | 41 | - | 6 | - | <0.05 | 63 | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | <0.3 | - | 6.1 | 15 | - | 24 | - | <0.05 | 4.0 | - | 230 | <25 | <25 | <25 | <25 | 200 | 140 | 350 | <100 | <20 | <20 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | <0.3 | - | 13 | 21 | - | 17 | - | <0.05 | 3.0 | - | 26 | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.3 | - | 8.9 | 57 | - | 18 | - | <0.05 | 120 | - | 73 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | <0.3 | - | 13 | 28 | - | 13 | - | <0.05 | 13 | - | 59 | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.3 | - | 7.7 | 50 | - | 3 | - | <0.05 | 120 | - | 49 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | <0.3 | - | 16 | 18 | - | 22 | - | <0.05 | 5.2 | - | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | <0.3 | - | 7.2 | 42 | - | 2 | - | <0.05 | 110 | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | <0.3 | - | 14 | 22 | - | 17 | - | <0.05 | 16 | - | 34 | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | <0.3 | - | 11 | 34 | - | 9 | - | <0.05 | 53 | - | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | <0.3 | - | 14 | 46 | - | 13 | - | <0.05 | 9.3 | - | 71 | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | <0.3 | - | 6.8 | 43 | - | 16 | - | <0.05 | 78 | - | 47 | <25 | <25 | <25 | <25 | 98 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | <0.3 | - | 15 | 12 | - | 14 | - | <0.05 | 3.0 | - | 17 | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | <0.3 | - | 7.7 | 35 | - | 19 | - | <0.05 | 24 | - | 87 | <25 | <25 | 37 | 37 | 190 | 190 | 410 | 110 | <20 | 29 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | <0.3 | - | 7.1 | 20 | - | 10 | - | <0.05 | 4.7 | - | 34 | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | <0.3 | - | 14 | 16 | - | 26 | - | 0.24 | 9.0 | - | 51 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | <0.3 | - | 7.3 | 15 | - | 12 | - | <0.05 | 2.2 | - | 20 | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | <0.3 | - | 7.0 | 53 | - | 2 | - | <0.05 | 110 | - | 48 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | <0.3 | - | 10 | 18 | - | 11 | - | <0.05 | 3.1 | - | 21 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | <0.3 | - | 8.2 | 17 | - | 9 | - | <0.05 | 5.3 | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | <0.3 | - | 9.4 | 41 | - | 51 | - | <0.05 | 62 | - | 80 | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | 0.3 | - | 16 | 37 | - | 770 | - | 0.17 | 11 | - | 240 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | <0.3 | 290 | 13 | 18 | 38,000 | 15 | 730 | <0.05 | 3.6 | 150 | 31 | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.3 | - | 11 | 36 | - | 16 | - | <0.05 | 21 | - | 85 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.3 | - | 11 | 36 | - | 18 | - | 0.06 | 22 | - | 79 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | <0.3 | - | 9.5 | 15 | - | 33 | - | <0.05 | 5.2 | - | 55 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | <0.4 | - | 14 | 15 | - | 34 | - | <0.1 | 6.7 | - | 56 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 |
| 10 Dec 2024 | QA04 | SE275864 | 9 | <0.3 | - | 14 | 16 | - | 26 | - | <0.05 | 7.4 | - | 30 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | <0.4 | - | 25 | 32 | - | 40 | - | <0.1 | 13 | - | 52 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 |
| 11 Dec 2024 | QA06 | SE275864 | 3 | <0.3 | - | 7.7 | 18 | - | 9 | - | <0.05 | 4.6 | - | 39 | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | H | | | | BTEXN | | | | | | | | | | | | | | |
| | Arsenic | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 1 | 45 | 45 | 50 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | 3 | NL | NL | NL | | | 230 | NL | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | NL | NL | NL | NL | | | NL | NL | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | NL | NL | NL | NL | | | NL | NL | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | 370 | | | | 370 | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | 170 | | | | 170 | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | 95 | 135 | 185 | | | | 95 | | | | | | | | | 1.4 | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | 65 | 105 | 125 | | | | 45 | | | | | | | | | 0.7 | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | 46 | 97 | 140 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | <45 | 78 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | 86 | 67 | 150 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | 0.2 | 0.3 | 1.0 | 0.9 | 0.7 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | 57 | 53 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.4 | 0.4 | 0.3 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | 56 | 51 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.3 | 0.2 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | 74 | 49 | 120 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | 45 | 57 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | 130 | 130 | 260 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | <45 | 96 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | 100 | 170 | 300 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | <45 | 49 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.2 | 0.1 |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | <50 | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <0.3 | <0.5 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 10 Dec 2024 | QA04 | SE275864 | 9 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | <50 | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <0.3 | <0.5 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | PAH | | | | | | | | | PCBs | | |
| | Arsenic | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | PAHs (Sum of positives) | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.5 | 0.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | | | | | | | | 40 | 40 | 40 | 4,000 | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | | | | | | | | 3 | 3 | 3 | 300 | | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | 0.2 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | 0.5 | 0.7 | 0.9 | 0.1 | 1.8 | <0.1 | 0.5 | 1.3 | 1.9 | 1.4 | 1.4 | 1.4 | 11 | 11 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | 0.3 | 0.3 | 0.4 | <0.1 | 0.6 | <0.1 | 0.3 | 0.3 | 0.7 | 0.6 | 0.7 | 0.6 | 3.9 | 3.9 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | 0.2 | 0.3 | 0.3 | <0.1 | 0.6 | <0.1 | 0.2 | 0.3 | 0.6 | 0.5 | 0.6 | 0.5 | 3.6 | 3.6 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | 0.2 | 0.3 | 0.3 | <0.1 | 0.5 | <0.1 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.4 | 3.1 | 3.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | 0.1 | 0.2 | 0.2 | <0.1 | 0.3 | <0.1 | 0.1 | 0.1 | 0.4 | 0.4 | 0.4 | 0.3 | 2.1 | 2.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | 0.2 | 0.2 | 0.2 | <0.1 | 0.5 | <0.1 | 0.2 | 0.3 | 0.5 | 0.4 | 0.4 | 0.3 | 2.5 | 2.5 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | 0.1 | 0.1 | <0.1 | <0.1 | 0.1 | <0.1 | 0.1 | <0.1 | 0.1 | 0.2 | <0.3 | <0.2 | 0.8 | 0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | 0.1 | <0.1 | 0.1 | <0.1 | 0.3 | <0.1 | 0.1 | 0.2 | 0.3 | 0.2 | <0.3 | <0.2 | 1.4 | 1.4 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | 0.3 | 0.2 | 0.3 | <0.1 | 0.9 | <0.1 | 0.3 | 0.5 | 0.8 | 0.6 | 0.6 | 0.5 | 4.4 | 4.4 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | 0.2 | 0.1 | 0.1 | <0.1 | 0.4 | <0.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | 2.1 | 2.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | <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 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | QA04 | SE275864 | 9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | <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 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Arsenic | PCBs (Sum of total) | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | Chlordane | Chlordane (cis) | Chlordane (technical) | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | 7 | | | | | | 45 | | 530 | | | | | | 3,600 | | | | | 100 | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | 1 | | | | | | 10 | | 70 | | | | | | 400 | | | | | 20 | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | | | | | | | | 640 | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | | | | | | | | 180 | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | <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 |
| 10 Dec 2024 | QA04 | SE275864 | 9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <LOR | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | <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 |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | | | | | | VOCs | | | EIL Physio-Chemical Parameters | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Arsenic | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | Total Organic Carbon | Exchangeable Calcium Percent (filtered) | Exchangeable Magnesium Percent (filtered) | Exchangeable Potassium Percent (filtered) | Exchangeable Sodium Percent (filtered) | % Moisture | Exchangeable Calcium (filtered) | Exchangeable Magnesium (filtered) | Exchangeable Potassium (filtered) | Exchangeable Sodium (filtered) | Cation Exchange Capacity (filtered) | Electrical Conductivity (Lab) |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | % | % | meq/100g | meq/100g | meq/100g | meq/100g | meq/100g | µS/cm |
| EQL | 1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 10 | 1 | 24 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 1 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | 50 | | 2,500 | 160 | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | 10 | | 400 | 30 | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 11.3 | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | <10 | <1 | <24 | - | - | - | - | - | 19.9 | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 24.3 | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | - | - | - | - | - | 12.7 | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 12.8 | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 21.4 | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.9 | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 20.2 | - | - | - | - | - | 140 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | - | - | - | - | - | 16.4 | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 17.8 | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 17.9 | - | - | - | - | - | 200 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | 0.33 | 94.4 | 2.5 | 1.3 | 1.9 | 10.0 | 29 | 0.75 | 0.38 | 0.58 | 30 | - |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 23.7 | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 7.5 | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 16.5 | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | 2.0 | 82.6 | 10.6 | 6.3 | 0.5 | 22.3 | 6.5 | 0.83 | 0.49 | 0.04 | 7.8 | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.9 | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 16.3 | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 13.8 | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 20.4 | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.2 | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 18.2 | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | <10 | <1 | <24 | - | - | - | - | - | 18.6 | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21.8 | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | - | - | - | - | - | 7.5 | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16.5 | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | - | - | - | - | - | 4.7 | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 24.0 | - | - | - | - | - | 350 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 19.6 | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.0 | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 13.5 | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.6 | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 15.0 | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23.2 | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 7.6 | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21.6 | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12.4 | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16.1 | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 6.1 | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 20.6 | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.8 | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.8 | - | - | - | - | - | 200 |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 27.0 | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | 0.39 | 16.4 | 67.1 | 4.3 | 12.1 | 17.7 | 1.5 | 6.0 | 0.39 | 1.1 | 9.0 | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | - | - | - | - | - | 14.9 | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <1 | <24 | - | - | - | - | - | 9.9 | - | - | - | - | - | - |
| 09 Dec 2024 | QA03 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 11.7 | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | 9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | 27.2 | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24.6 | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | | | Pesticides | MAH | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Arsenic | Moisture Content (dried @ 103°C) | Sodium (filtered) | pH (CaCl2) | Mirex | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | Styrene | tert-butylbenzene | Other chlorinated hydrocarbons EPAVic | 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 |
| | mg/kg | % | mg/kg | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 1 | 1 | 2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 | 1.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | | 100 | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | | 20 | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | - | - | 4.3 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | - | - | 5.0 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | - | 130 | 7.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | - | 9 | 6.1 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | - | - | 4.1 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | 6.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | 250 | 4.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | 9.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | 9 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Arsenic | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene | Trichloroethene |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | 0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | | | | | Halogenated Benzenes | | | | | | | | | | Solvents | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Arsenic | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | 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 |
| EQL | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 10 | 5 | 1 | 10 | 0.1 | 0.1 | 0.5 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | | | | | | | | | | | | 80 | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | | | | | | | | | | | | 10 | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | | | | | | | | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|
| | Arsenic | MTBE | Vinyl acetate | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 1 | 0.1 | 10 | 0.1 | 1 | 1 | 5 | 1 |
| NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil | 3,000 | | | | | | | |
| NEPM 2013 Table 1A(1) HILs Rec C Soil | 300 | | | | | | | |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | |
| NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (Soils <0-1mbgl) | | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind | 160 | | | | | | | |
| NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space | 100 | | | | | | | |
| Site Specific EIL - Urban Residential and open public space | | | | | | | | |
| Site Specific EIL - Commercial Inustrial | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil | | | | | | | | |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil | | | | | | | | |
| NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | 2 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | 9 | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | 3 | - | - | - | - | - | - | - |

LOR Limit of Reporting

| | | | Asbestos | | | | | Mass | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Asbestos (<2mm AF/FA) | Asbestos (<7mm AF/FA) | Asbestos (>2mm <7mm AF/FA) | Bonded Asbestos (ACM >7mm) Estimation | Asbestos fibres | Mass ACM | Mass asbestos in AF | Mass Asbestos in FA & AF | weight of sample |
| | | | %w/w | % | %w/w | %w/w | %w/w | g | g | g | g |
| EQL | | | 0.001 | 0.001 | 0.001 | 0.01 | 0.01 | 0.001 | 0.00001 | 0.00001 | 1 |
| HIL C Asbestos Recreational public open space criteria | | | | | | 0.02 | | | | | |
| HIL D Asbestos Commercial/Industrial criteria | | | | | | 0.05 | | | | | |
| NEPM 2013 Asbestos Fines Criteria | | | | 0.001 | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | |
| **09 Dec 2024** | **TP101-0.1-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 599 |
| **09 Dec 2024** | **TP102-0.1-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 789 |
| **09 Dec 2024** | **TP109-0.2-0.3** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 764 |
| **09 Dec 2024** | **TP110-0.1-0.2** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 611 |
| **09 Dec 2024** | **TP111-0.4-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 637 |
| **09 Dec 2024** | **TP111-0.4-0.5-ACM** | **SE275864** | - | - | - | - | **Yes** | - | - | - | 13.72 |
| **09 Dec 2024** | **TP111-0.05-0.1** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 633 |
| **09 Dec 2024** | **TP112-0.3-0.4** | **SE275864** | <0.001 | 0.002 | 0.002 | <0.01 | - | <0.001 | <0.00001 | 0.0107 | 619 |
| **09 Dec 2024** | **TP112-0.3-0.4 ACM** | **SE275864** | - | - | - | - | **Yes** | - | - | - | 21.47 |
| **09 Dec 2024** | **TP112-0.05-0.1** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 631 |
| **09 Dec 2024** | **TP113-0.3-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | **Yes** | 0.403 | <0.00001 | <0.00001 | 663 |
| **09 Dec 2024** | **TP113-0.6-0.7** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 476 |
| **09 Dec 2024** | **TP114-0.5-0.6** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 644 |
| **09 Dec 2024** | **TP114-1.0-1.1** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 618 |
| **09 Dec 2024** | **TP115-0.3-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 383 |
| **09 Dec 2024** | **TP115-0.3-0.5-ACM** | **SE275864** | - | - | - | - | **Yes** | - | - | - | - |
| **09 Dec 2024** | **TP115-0.8-0.9** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 534 |
| **09 Dec 2024** | **TP116-0.1-0.2** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 643 |
| **09 Dec 2024** | **TP117-0.1-0.2** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 614 |
| **09 Dec 2024** | **TP118-0.3-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 565 |
| **09 Dec 2024** | **TP119-0.2-0.3** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 625 |
| **09 Dec 2024** | **TP119-ACM** | **SE275864** | - | - | - | - | **Yes** | - | - | - | - |
| **10 Dec 2024** | **TP103-0.1-0.2** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 501 |
| **10 Dec 2024** | **TP103-0.6-0.7** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 521 |
| **10 Dec 2024** | **TP104-0.2-0.6** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 932 |
| **10 Dec 2024** | **TP105-0.1-0.2** | **SE275864** | <0.001 | 0.006 | 0.006 | <0.01 | - | <0.001 | <0.00001 | 0.0385 | 653 |
| **10 Dec 2024** | **TP105-0.4-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 698 |
| **10 Dec 2024** | **TP106-0.1-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 868 |
| **10 Dec 2024** | **TP107-0.1-0.2** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 665 |
| **10 Dec 2024** | **TP107-0.5-0.6** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 602 |
| **10 Dec 2024** | **TP120-0.3-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 575 |
| **10 Dec 2024** | **TP121-0.1-0.3** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 824 |
| **10 Dec 2024** | **TP121-0.3-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 570 |
| **10 Dec 2024** | **TP122-0.1-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 847 |
| **10 Dec 2024** | **TP122-0.1-0.5-ACM** | **SE275864** | - | - | - | - | **Yes** | - | - | - | - |
| **10 Dec 2024** | **TP123-0.1-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 728 |
| **10 Dec 2024** | **TP126-0.1-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 567 |
| **11 Dec 2024** | **TP108-0.2-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 530 |
| **11 Dec 2024** | **TP127-0.1-0.3** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 960 |
| **11 Dec 2024** | **TP127-0.4-0.9** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 712 |
| **11 Dec 2024** | **TP128-0.1-0.4** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 718 |
| **11 Dec 2024** | **TP129-0.1-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 694 |
| **11 Dec 2024** | **TP130-0.1-0.6** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 871 |
| **11 Dec 2024** | **TP131-0.1-0.5** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 788 |
| **11 Dec 2024** | **TP132-0.2-0.3** | **SE275864** | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 558 |

| | |
|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI |
| SITE LOCATION: | 490 Chapel Road, Bankstown NSW 2200 |
| PROJECT No: | 30013640 |
| CLIENT: | Helath Infrustructure NSW |

| | | | | | WA Sampling Summary | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location Location ID** | **Date measured** | **Bonded ACM description (no. of fragments, size, condition)** | **Bonded ACM result confirmed by laboratory** | **WA Sampling carried out?** | **Weight of 10L sample (kg)** | **ACM observed in 10L sample?** | **Weight of bonded ACM (g) *(Laboratory measured)*** | **Estimated weight of asbestos in ACM (by calc) (A) (kg)** | **Moisture content of soil (%) - *(Laboratory measured)*** | **Estimated dry weight of 10L sample (kg) (B)** | **Estimated Bonded ACM in soil (%w/w)** |
| | | | | | | | | **Note 1** | | **Note 2** | **Note 3** |
| TP101-0.1-0.5 | 9/12/2024 | - | - | Yes | 13.8 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP103-0.1-0.2 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP103-0.6-0.6 | 9/12/2024 | - | - | Yes | 11.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP104-0.2-0.6 | 9/12/2024 | - | - | Yes | 12.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP105-0.1-0.2 | 10/12/2024 | - | - | Yes | 14.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP105-0.4-0.6 | 10/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP106-0.1-0.5 | 9/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP108-0.2-0.5 | 11/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP109-0.2-0.3 | 9/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP110-0.1-0.8 | 9/12/2024 | - | - | Yes | 16.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP111-0.05-0.1 | 9/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP111-0.4-0.5 | 9/12/2024 | One fragment observed in good condition | Yes | Yes | 12.0 | Yes | 13.72 | 0.002058 | 10.0 | 10.909 | 0.019 |
| TP112-0.05-0.1 | 9/12/2024 | - | - | Yes | 11.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP112-0.3-0.4 | 9/12/2024 | 2 fragments observed in good condtion | Yes | Yes | 14.5 | Yes | 21.47 | 0.003221 | 23.7 | 11.722 | 0.027 |
| TP113-0.3-0.4 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP113-0.6-0.7 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP114-0.5-0.6 | 9/12/2024 | - | - | Yes | 16.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP114-1.0-1.1 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP115-0.3-0.4 | 9/12/2024 | 1 Fragment observed in good condition | Yes | Yes | 11.5 | Yes | 3.96 | 0.000594 | 16.3 | 9.888 | 0.006 |
| TP115-0.8-0.9 | 9/12/2024 | - | - | Yes | 12.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP116-0.1-0.2 | 9/12/2024 | - | - | Yes | 14.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP117-0.1-0.2 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP118-0.3-0.4 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP118-0.7-0.8 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP119-0.2-0.3 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP119-0.8-0.9 | 9/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP120-0.3-0.4 | 10/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP121-0.1-0.3 | 10/12/2024 | - | - | Yes | 14.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP121-0.3-0.5 | 10/12/2024 | - | - | Yes | 12.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP122-0.1-0.5 | 10/12/2024 | 1 Fragment observed in good condition | Yes | Yes | 14.5 | Yes | 12.50 | 0.001875 | 7.5 | 13.488 | 0.014 |
| TP123-0.1-0.4 | 10/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |

| | |
|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI |
| SITE LOCATION: | 490 Chapel Road, Bankstown NSW 2200 |
| PROJECT No: | 30013640 |
| CLIENT: | Helath Infrustructure NSW |

| | | | | | WA Sampling Summary | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location Location ID** | **Date measured** | **Bonded ACM description (no. of fragments, size, condition)** | **Bonded ACM result confirmed by laboratory** | **WA Sampling carried out?** | **Weight of 10L sample (kg)** | **ACM observed in 10L sample?** | **Weight of bonded ACM (g) *(Laboratory measured)*** | **Estimated weight of asbestos in ACM (by calc) (A) (kg)** | **Moisture content of soil (%) - *(Laboratory measured)*** | **Estimated dry weight of 10L sample (kg) (B)** | **Estimated Bonded ACM in soil (%w/w)** |
| | | | | | | | | **Note 1** | | **Note 2** | **Note 3** |
| TP125-0.1-0.3 | 10/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP126-0.1-0.4 | 10/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP127-0.1-0.3 | 11/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP127-0.4-0.9 | 11/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP128-0.1-0.4 | 11/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP129-0.1-0.5 | 11/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP130-0.1-0.6 | 11/12/2024 | - | - | Yes | 15.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP131-0.1-0.5 | 11/12/2024 | - | - | Yes | 12.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP132-0.2-0.3 | 11/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |

**NOTES:**
1. Estimated weight of asbestos in ACM asssumed to be 15% of weight of ACM fragment as per NEPM 1999
2. Dry Weight = Weight of moist soil/(moisture content + 1)
3. Estimated bonded ACM in soil (%w/w) = (**A/1000)** / **(B)** x 100 (rounded to nearest 0.001%)

Exceeds bonded ACM criteria (HIL C - Recreational) (0.02%)

*underline* Exceeds bonded ACM criteria (HIL D - Commercial/Industrial) (0.05%)

| | Field Results | | | | | | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pH | Electrical Conductivity | Redox | DO | Temperature | Standing Water Depth | Observations | Arsenic (filtered) | Cadmium (filtered) | Chromium (III+VI) (filtered) | Copper (filtered) | Lead (filtered) | Mercury (filtered) | Nickel (filtered) | Zinc (filtered) |
| | - | (S/cm) | mV | mg/L | - | m(bTOC) | - | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| EQL | | | | | | | | 0.001 | 0.0001 | 0.001 | 0.001 | 0.001 | 0.0001 | 0.001 | 0.005 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | 0.0055 | | 0.0013 | 0.0044 | 0.0004 | 0.07 | 0.015 |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | 0.0007 | | | | 0.0001 | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | 1 | | | | 3 |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | 0.1 | 0.02 | | 20 | 0.1 | 0.01 | 0.2 | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | 0.1 | 0.01 | 0.1 | 0.2 | 2 | 0.002 | 0.2 | 2 |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | 2 | 0.05 | 1 | 5 | 5 | 0.002 | 2 | 5 |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | 0.5 | 0.01 | 1 | 0.4 | 0.1 | 0.002 | 1 | 20 |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | |
| **09 Jan 2025** | **BH101** | **SE276667** | 7.09 | 12640 | -58.9 | 5.2 | 22.5 | 9.06 | No Colour, no sheen, no odour | 0.009 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.045 | <0.005 |
| **09 Jan 2025** | **BH102** | **SE276667** | 6.74 | 14283 | 28.4 | 6.1 | 20.1 | 7.44 | Light brown, no sheen, no odour | <0.001 | <0.0001 | <0.001 | 0.006 | <0.001 | <0.0001 | 0.014 | 0.1 |
| **09 Jan 2025** | **BH103** | **SE276667** | 6.89 | 13282 | -71.7 | 4.2 | 22.8 | 8.06 | No Colour, no sheen, no odour | 0.003 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.093 | 0.025 |
| **09 Jan 2025** | **QA01** | **SE276667** | - | - | - | - | - | | - | 0.009 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.043 | <0.005 |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | TRH | | | | | | TPH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | Benzene | Toluene | Ethylbenzene | Naphthalene |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | mg/L | mg/L | mg/L |
| EQL | | | 50 | 50 | 60 | 60 | 500 | 500 | 320 | 200 | 40 | 50 | 200 | 200 | 0.0005 | 0.0005 | 0.0005 | 0.00002 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | 0.7 | 0.18 | 0.08 | 0.07 |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | 0.025 | 0.003 | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | | | | | | | | 0.01 | 8 | 3 | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | |
| **09 Jan 2025** | **BH101** | **SE276667** | <50 | <50 | <60 | <60 | <500 | <500 | <320 | <200 | <40 | <50 | <200 | <200 | <0.0005 | <0.0005 | <0.0005 | 0.00005 |
| **09 Jan 2025** | **BH102** | **SE276667** | <50 | <50 | <60 | <60 | <500 | <500 | <320 | <200 | <40 | <50 | <200 | <200 | <0.0005 | <0.0005 | <0.0005 | 0.00004 |
| **09 Jan 2025** | **BH103** | **SE276667** | <50 | <50 | <60 | <60 | <500 | <500 | <320 | <200 | <40 | <50 | <200 | <200 | <0.0005 | <0.0005 | <0.0005 | <0.00002 |
| **09 Jan 2025** | **QA01** | **SE276667** | <50 | <50 | - | - | - | - | - | - | <40 | - | - | - | <0.0005 | <0.0005 | <0.0005 | - |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | BTEXN | | | | | PAH | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+k)fluoranthene | Benzo(g,h,i)perylene | Chrysene | Dibenz(a,h)anthracene |
| | µg/L | mg/L | µg/L | mg/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 | 1 | 0.0005 | 1.5 | 0.0005 | 3 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | 0.07 | | | | | | 0.4 | | 0.2 | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | 20 | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | 6,000 | | | | | | | | | 0.1 | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |
| **Date** **Field ID** **Lab Report Number** | | | | | | | | | | | | | | | | |
| **09 Jan 2025** **BH101** **SE276667** | <1 | <0.0005 | <1.5 | <0.0005 | <3 | 0.03 | 0.03 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.01 |
| **09 Jan 2025** **BH102** **SE276667** | <1 | <0.0005 | <1.5 | <0.0005 | <3 | 0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.01 |
| **09 Jan 2025** **BH103** **SE276667** | <1 | <0.0005 | <1.5 | <0.0005 | <3 | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.01 |
| **09 Jan 2025** **QA01** **SE276667** | <1 | <0.0005 | <1.5 | <0.0005 | <3 | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | | | | | | | NA | | MAH | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | PAHs (Vic EPA List) | Sum of US EPA PFAS (PFOS+PFOA) | Total Hardness as CaCO3 (filtered) | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | TEQ (µg/L) | µg/L | µg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.012 | 0.1 | 0.1 | 0.0002 | 5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | 1.4 | | | 2 | | | | | | | | | 30 | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | 1 | | | 0.6 | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | |
| **09 Jan 2025** | **BH101** | **SE276667** | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.012 | 0.1 | <0.1 | <0.0002 | 1,200 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** | **BH102** | **SE276667** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.012 | <0.1 | <0.1 | 0.0043 | 1,700 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** | **BH103** | **SE276667** | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.012 | <0.1 | <0.1 | <0.0002 | 1,600 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** | **QA01** | **SE276667** | - | - | - | - | - | - | - | - | - | 1,200 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | Perfluoroalkyl Sulfonamides | | | | | | | PFAS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | sec-butylbenzene | Styrene | tert-butylbenzene | Perfluorooctane sulfonamide (FOSA) | N-Methyl perfluorooctane sulfonamide (MeFOSA) | N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA) | N-methyl perfluorooctane sulfonamidoethanol (MeFOSE) | N-Ethyl perfluorooctane sulfonamide (EtFOSA) | N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) | N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE) | Perfluorobutanesulfonate | Perfluorododecane sulfonate (PFDoS) | Perfluorononanesulfonic acid (PFNS) | Sum of PFHxS and PFOS | Sum of enHealth PFAS (PFHxS + PFOS + PFOA) | Perfluorobutanoic acid (PFBA) |
| | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| EQL | 0.5 | 0.5 | 0.5 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.001 | 0.002 | 0.000001 | 0.0002 | 0.0002 | 0.005 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | 2 | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | 4 | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | 300 | | | | | | | | | | | | 0.7 | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |
| **Date** **Field ID** **Lab Report Number** | | | | | | | | | | | | | | | | |
| **09 Jan 2025** **BH101** **SE276667** | <0.5 | <0.5 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | <0.0002 | <0.0002 | <0.005 |
| **09 Jan 2025** **BH102** **SE276667** | <0.5 | <0.5 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | 0.0043 | 0.0043 | <0.005 |
| **09 Jan 2025** **BH103** **SE276667** | <0.5 | <0.5 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | <0.0002 | <0.0002 | <0.005 |
| **09 Jan 2025** **QA01** **SE276667** | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | Perfluoroalkane Carboxylic Acids | | | | | | | | | | Perfluoroalkane Sulfonic Acids | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Perfluoropentanoic acid (PFPeA) | Perfluorohexanoic acid (PFHxA) | Perfluoroheptanoic acid (PFHpA) | Perfluorooctanoic acid (PFOA) | Perfluorononanoic acid (PFNA) | Perfluorodecanoic acid (PFDA) | Perfluorododecanoic acid (PFDoDA) | Perfluorotetradecanoic acid (PFTeDA) | Perfluorotridecanoic acid (PFTrDA) | Perfluoroundecanoic acid (PFUnDA) | Perfluoropentane sulfonic acid (PFPeS) | Perfluoropropanesulfonic acid (PFPrS) | Perfluorohexane sulfonic acid (PFHxS) | Perfluoroheptane sulfonic acid (PFHpS) | Perfluorooctane sulfonic acid (PFOS) | Perfluorodecane sulfonic acid (PFDS) |
| | 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 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.0002 | 0.001 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | 10 | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | 5.6 | | | | | | | | | 0.7 | | 0.7 | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | 19 | | | | | | | | | | | 0.0023 | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | |
| **09 Jan 2025** | **BH101** | **SE276667** | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.0002 | <0.001 |
| **09 Jan 2025** | **BH102** | **SE276667** | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0043 | <0.001 |
| **09 Jan 2025** | **BH103** | **SE276667** | 0.004 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.0002 | <0.001 |
| **09 Jan 2025** | **QA01** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | (n:2) Fluorotelomer Sulfonic Acids | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4:2 Fluorotelomer sulfonic acid (4:2 FTS) | 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane |
| | 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 | 0.002 | 0.002 | 0.002 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | 270 | 400 | 1,900 | | 700 | | | | 1,900 | 900 | 1,100 | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | | 300 | | | | 30 | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | | |
| **Date** / **Field ID** / **Lab Report Number** | | | | | | | | | | | | | | | | | |
| **09 Jan 2025** / **BH101** / **SE276667** | <0.002 | <0.002 | <0.002 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** / **BH102** / **SE276667** | <0.002 | <0.002 | <0.002 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** / **BH103** / **SE276667** | <0.002 | <0.002 | <0.002 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** / **QA01** / **SE276667** | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene |
| | 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 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 0.5 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | 240 | | | 770 | | | | | 4,000 | | 330 | 70 | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | 30 | | | | | | | | 40 | 7 | | 500 | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |
| **Date** / **Field ID** / **Lab Report Number** | | | | | | | | | | | | | | | | |
| **09 Jan 2025** / **BH101** / **SE276667** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** / **BH102** / **SE276667** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** / **BH103** / **SE276667** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Jan 2025** / **QA01** / **SE276667** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | Halogenated Benzenes | | | | | | | | | Solvents | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | trans-1,3-dichloropropene | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile |
| | | | 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 | mg/L | µg/L |
| EQL | | | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 10 | 5 | 5 | 0.01 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | 100 | | 80 | | | | | | | 55 | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | 1 | 20 | 0.3 | | | | 10 | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | 3 | | | 15,000 | | 400 | | | | 3,000 | | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | |
| **09 Jan 2025** | **BH101** | **SE276667** | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 |
| **09 Jan 2025** | **BH102** | **SE276667** | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 |
| **09 Jan 2025** | **BH103** | **SE276667** | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 |
| **09 Jan 2025** | **QA01** | **SE276667** | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
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ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | | VOCs | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Allyl chloride | Carbon disulfide | MTBE | Vinyl acetate | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | mg/L | µg/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | 0.002 | 2 | 0.0005 | 10 | 0.1 | 1 | 10 | 0.5 | 10 | 5 | 5 | 1 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | 10 | 10 | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | |
| **Date** / **Field ID** / **Lab Report Number** | | | | | | | | | | | | |
| **09 Jan 2025** / **BH101** / **SE276667** | <0.002 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| **09 Jan 2025** / **BH102** / **SE276667** | <0.002 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| **09 Jan 2025** / **BH103** / **SE276667** | <0.002 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| **09 Jan 2025** / **QA01** / **SE276667** | <0.002 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |

**Environmental Standards**

ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
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NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | Metals | | | | | | | | | | | | | | TRH | | | | | | | TPH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Arsenic (filtered) | Cadmium | Calcium (filtered) | Chromium (total)[a] | Copper | Iron | Lead | Lead (TCLP) | Magnesium (filtered) | Mercury | Nickel | Nickel (filtered) | Potassium (filtered) | Zinc | 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) | C37- C40 Fraction | C6- C9 Fraction | C10- C14 Fraction | C15- C28 Fraction |
| | | | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | 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 |
| EQL | | | 1 | 0.02 | 0.3 | 2 | 0.5 | 0.5 | 50 | 1 | 0.02 | 2 | 0.05 | 0.5 | 0.005 | 2 | 2 | 20 | 20 | 25 | 25 | 90 | 100 | 100 | 100 | 20 | 20 | 45 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | 100 | | 20 | | | | | 100 | | | 4 | 40 | | | | | | | | | | | | 650 | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | 500 | | 100 | | | | | 1,500 | | | 50 | 1,050 | | | | | | | | | | | | 650 | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | 5 | | | | | | | 5 | | | | 2 | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | 400 | | 80 | | | | | 400 | | | 16 | 160 | | | | | | | | | | | | 2,600 | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | 2,000 | | 400 | | | | | 6,000 | | | 200 | 4,200 | | | | | | | | | | | | 2,600 | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | 20 | | | | | | | 20 | | | | 8 | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **TP101-0.1-0.5** | **SE275864** | 180 | 0.072 | 1.5 | - | 9.2 | 33 | - | 45 | - | - | 0.13 | 29 | - | - | 89 | <25 | <25 | <25 | <25 | 100 | <120 | <210 | <100 | <20 | <20 | 46 |
| **09 Dec 2024** | **TP102-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP103-0.1-0.2** | **SE275864** | 6 | - | <0.3 | - | 12 | 14 | - | 26 | - | - | <0.05 | 7.7 | - | - | 59 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP104-0.2-0.6** | **SE275864** | 1 | - | <0.3 | - | 5.8 | 55 | - | 2 | - | - | <0.05 | 74 | 0.14 | - | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP106-0.1-0.5** | **SE275864** | 1 | - | <0.3 | - | 6.4 | 51 | - | 2 | - | - | <0.05 | 37 | - | - | 27 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP107-0.5-0.6** | **SE275864** | 97 | - | 0.8 | - | 11 | 15 | - | 28 | - | - | 0.06 | 12 | - | - | 45 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP107-1.1-1.2** | **SE275864** | 8 | - | <0.3 | - | 15 | 16 | - | 15 | - | - | <0.05 | 3.5 | - | - | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP108-0.2-0.5** | **SE275864** | 31 | - | <0.3 | - | 13 | 21 | - | 26 | - | - | 0.07 | 17 | - | - | 50 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP108-0.6-1.0** | **SE275864** | 7 | - | <0.3 | - | 17 | 19 | - | 14 | - | - | <0.05 | 7.0 | - | - | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP109-0.2-0.3** | **SE275864** | 5 | - | <0.3 | - | 7.6 | 29 | - | 11 | - | - | 0.09 | 26 | - | - | 52 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP110-0.1-0.2** | **SE275864** | 2 | - | <0.3 | - | 12 | 26 | - | 15 | - | - | <0.05 | 8.9 | - | - | 35 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP110-0.6-0.7** | **SE275864** | 13 | - | <0.3 | - | 20 | 12 | - | 18 | - | - | <0.05 | 5.7 | - | - | 20 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP111-0.4-0.5** | **SE275864** | 7 | - | <0.3 | 5,700 | 21 | 30 | 19,000 | 130 | 0.13 | 91 | 0.20 | 18 | - | 150 | 160 | <25 | <25 | <25 | <25 | 130 | <120 | <210 | <100 | <20 | <20 | 86 |
| **09 Dec 2024** | **TP112-0.3-0.4** | **SE275864** | 5 | - | <0.3 | - | 12 | 25 | - | 86 | - | - | 0.17 | 13 | - | - | 130 | <25 | <25 | <25 | <25 | 92 | <120 | <210 | <100 | <20 | <20 | 57 |
| **09 Dec 2024** | **TP113-0.6-0.7** | **SE275864** | 5 | - | <0.3 | - | 7.8 | 31 | - | 80 | - | - | 0.15 | 12 | - | - | 220 | <25 | <25 | <25 | <25 | 91 | <120 | <210 | <100 | <20 | <20 | 56 |
| **09 Dec 2024** | **TP113-1.0-1.1** | **SE275864** | 9 | - | <0.3 | - | 19 | 15 | - | 21 | - | - | <0.05 | 5.4 | - | - | 32 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP114-0.1-0.2** | **SE275864** | 3 | - | <0.3 | 1,300 | 5.2 | 27 | 8,000 | 80 | - | 100 | 0.17 | 3.9 | - | 190 | 91 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP114-2.1-2.2** | **SE275864** | 6 | - | <0.3 | - | 12 | 20 | - | 14 | - | - | <0.05 | 4.5 | - | - | 28 | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP115-0.3-0.4** | **SE275864** | 5 | - | <0.3 | - | 7.6 | 33 | - | 42 | - | - | 0.07 | 9.2 | - | - | 61 | <25 | <25 | <25 | <25 | 110 | <120 | <210 | <100 | <20 | <20 | 74 |
| **09 Dec 2024** | **TP116-0.6--0.7** | **SE275864** | 2 | - | <0.3 | - | 1.9 | 18 | - | 9 | - | - | <0.05 | 1.7 | - | - | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP117-0.1-0.2** | **SE275864** | 6 | - | <0.3 | - | 13 | 12 | - | 26 | - | - | <0.05 | 5.3 | - | - | 38 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | 45 |
| **09 Dec 2024** | **TP118-0.3-0.4** | **SE275864** | 3 | - | <0.3 | - | 11 | 41 | - | 6 | - | - | <0.05 | 63 | 0.12 | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **TP119-0.8-0.9** | **SE275864** | 4 | - | <0.3 | - | 6.1 | 15 | - | 24 | - | - | <0.05 | 4.0 | - | - | 230 | <25 | <25 | <25 | <25 | 200 | 140 | 350 | <100 | <20 | <20 | 130 |
| **10 Dec 2024** | **TP120-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP121-0.8-1.0** | **SE275864** | 7 | - | <0.3 | - | 13 | 21 | - | 17 | - | - | <0.05 | 3.0 | - | - | 26 | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP122-0.1-0.5** | **SE275864** | 3 | - | <0.3 | - | 8.9 | 57 | - | 18 | - | - | <0.05 | 120 | 0.22 | - | 73 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP122-0.8-1.0** | **SE275864** | 6 | - | <0.3 | - | 13 | 28 | - | 13 | - | - | <0.05 | 13 | - | - | 59 | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP123-0.1-0.4** | **SE275864** | 1 | - | <0.3 | - | 7.7 | 50 | - | 3 | - | - | <0.05 | 120 | 0.12 | - | 49 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP123-0.4-0.7** | **SE275864** | 13 | - | <0.3 | - | 16 | 18 | - | 22 | - | - | <0.05 | 5.2 | - | - | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP125-0.1-0.3** | **SE275864** | 1 | - | <0.3 | - | 7.2 | 42 | - | 2 | - | - | <0.05 | 110 | - | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP125-0.4-0.8** | **SE275864** | 6 | - | <0.3 | - | 14 | 22 | - | 17 | - | - | <0.05 | 16 | - | - | 34 | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.1-0.4** | **SE275864** | 5 | - | <0.3 | - | 11 | 34 | - | 9 | - | - | <0.05 | 53 | - | - | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **TP126-0.4-0.6** | **SE275864** | 7 | - | <0.3 | - | 14 | 46 | - | 13 | - | - | <0.05 | 9.3 | - | - | 71 | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.1-0.3** | **SE275864** | 2 | - | <0.3 | - | 6.8 | 43 | - | 16 | - | - | <0.05 | 78 | 0.11 | - | 47 | <25 | <25 | <25 | <25 | 98 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP127-0.9-1.2** | **SE275864** | 8 | - | <0.3 | - | 15 | 12 | - | 14 | - | - | <0.05 | 3.0 | - | - | 17 | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.1-0.4** | **SE275864** | 4 | - | <0.3 | - | 7.7 | 35 | - | 19 | - | - | <0.05 | 24 | - | - | 87 | <25 | <25 | 37 | 37 | 190 | 190 | 410 | 110 | <20 | 29 | 100 |
| **11 Dec 2024** | **TP128-0.4-1.0** | **SE275864** | 4 | - | <0.3 | - | 7.1 | 20 | - | 10 | - | - | <0.05 | 4.7 | - | - | 34 | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.1-0.5** | **SE275864** | 6 | - | <0.3 | - | 14 | 16 | - | 26 | - | - | 0.24 | 9.0 | - | - | 51 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP129-0.5-1.0** | **SE275864** | 6 | - | <0.3 | - | 7.3 | 15 | - | 12 | - | - | <0.05 | 2.2 | - | - | 20 | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.1-0.6** | **SE275864** | 2 | - | <0.3 | - | 7.0 | 53 | - | 2 | - | - | <0.05 | 110 | 0.19 | - | 48 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP130-0.6-1.0** | **SE275864** | 6 | - | <0.3 | - | 10 | 18 | - | 11 | - | - | <0.05 | 3.1 | - | - | 21 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP131-0.1-0.5** | **SE275864** | 3 | - | <0.3 | - | 8.2 | 17 | - | 9 | - | - | <0.05 | 5.3 | - | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP131-0.5-1.1** | **SE275864** | 5 | - | <0.3 | - | 9.4 | 41 | - | 51 | - | - | <0.05 | 62 | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.2-0.3** | **SE275864** | 10 | - | 0.3 | - | 16 | 37 | - | 770 | 0.18 | - | 0.17 | 11 | <0.005 | - | 240 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **11 Dec 2024** | **TP132-0.5-0.6** | **SE275864** | 4 | - | <0.3 | 290 | 13 | 18 | 38,000 | 15 | - | 730 | <0.05 | 3.6 | - | 150 | 31 | - | - | - | - | - | - | - | - | - | - | - |
| **19 Dec 2024** | **BH102-1.4-1.6** | **SE276220** | 4 | - | <0.3 | - | 11 | 36 | - | 16 | - | - | <0.05 | 21 | - | - | 85 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **19 Dec 2024** | **BH102-3.0-3.2** | **SE276220** | 6 | - | <0.3 | - | 11 | 36 | - | 18 | - | - | 0.06 | 22 | - | - | 79 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **QA03** | **SE275864** | 5 | - | <0.3 | - | 9.5 | 15 | - | 33 | - | - | <0.05 | 5.2 | - | - | 55 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **09 Dec 2024** | **QA03-A** | **1173417** | 7.0 | - | <0.4 | - | 14 | 15 | - | 34 | - | - | <0.1 | 6.7 | - | - | 56 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 | <50 |
| **10 Dec 2024** | **QA04** | **SE275864** | 9 | - | <0.3 | - | 14 | 16 | - | 26 | - | - | <0.05 | 7.4 | - | - | 30 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| **10 Dec 2024** | **QA04-A** | **1173417** | 15 | - | <0.4 | - | 25 | 32 | - | 40 | - | - | <0.1 | 13 | - | - | 52 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 | <50 |
| **11 Dec 2024** | **QA06** | **SE275864** | 3 | - | <0.3 | - | 7.7 | 18 | - | 9 | - | - | <0.05 | 4.6 | - | - | 39 | - | - | - | - | - | - | - | - | - | - | - |

**Notes:**

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

**Environmental Standards**

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | | | BTEXN | | | | | | | | | PAH | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | C29- C36 Fraction | C10- C36 Fraction (Sum) | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Phenanthrene |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | | | 45 | 50 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | 10,000 | 10 | 288 | 600 | | | | 1,000 | | | | | | | | | 0.8 | | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | 10,000 | 18 | 518 | 1,080 | | | | 1,800 | | | | | | | | | 10 | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | 40,000 | 40 | 1,152 | 2,400 | | | | 4,000 | | | | | | | | | 3.2 | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | 40,000 | 72 | 2,073 | 4,320 | | | | 7,200 | | | | | | | | | 23 | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **TP101-0.1-0.5** | **SE275864** | 97 | 140 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP102-0.1-0.5** | | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP103-0.1-0.2** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP104-0.2-0.6** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP106-0.1-0.5** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP107-0.5-0.6** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP107-1.1-1.2** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **TP108-0.2-0.5** | **SE275864** | 78 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **TP108-0.6-1.0** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP109-0.2-0.3** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP110-0.1-0.2** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP110-0.6-0.7** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP111-0.4-0.5** | **SE275864** | 67 | 150 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | 0.2 | 0.3 | 1.0 | 0.9 | 0.7 | 0.5 | 0.7 | 0.9 | 0.1 | 1.8 | <0.1 | 0.5 | 1.3 |
| **09 Dec 2024** | **TP112-0.3-0.4** | **SE275864** | 53 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | <0.1 | 0.6 | <0.1 | 0.3 | 0.3 |
| **09 Dec 2024** | **TP113-0.6-0.7** | **SE275864** | 51 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | <0.1 | 0.6 | <0.1 | 0.2 | 0.3 |
| **09 Dec 2024** | **TP113-1.0-1.1** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP114-0.1-0.2** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | <0.1 | 0.5 | <0.1 | 0.2 | 0.2 |
| **09 Dec 2024** | **TP114-2.1-2.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP115-0.3-0.4** | **SE275864** | 49 | 120 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | <0.1 | 0.3 | <0.1 | 0.1 | 0.1 |
| **09 Dec 2024** | **TP116-0.6--0.7** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP117-0.1-0.2** | **SE275864** | 57 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | <0.1 | 0.5 | <0.1 | 0.2 | 0.3 |
| **09 Dec 2024** | **TP118-0.3-0.4** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP119-0.8-0.9** | **SE275864** | 130 | 260 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 | 0.1 | <0.1 | <0.1 | 0.1 | <0.1 | 0.1 | <0.1 |
| **10 Dec 2024** | **TP120-0.3-0.4** | **SE275864** | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP121-0.8-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP122-0.1-0.5** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP122-0.8-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP123-0.1-0.4** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP123-0.4-0.7** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP125-0.1-0.3** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP125-0.4-0.8** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.1-0.4** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP126-0.4-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.1-0.3** | **SE275864** | 96 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **TP127-0.9-1.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.1-0.4** | **SE275864** | 170 | 300 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 |
| **11 Dec 2024** | **TP128-0.4-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.1-0.5** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 | <0.1 | 0.1 | <0.1 | 0.3 | <0.1 | 0.1 | 0.2 |
| **11 Dec 2024** | **TP129-0.5-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.1-0.6** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **TP130-0.6-1.0** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **TP131-0.1-0.5** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **TP131-0.5-1.1** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.2-0.3** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | <0.1 | 0.9 | <0.1 | 0.3 | 0.5 |
| **11 Dec 2024** | **TP132-0.5-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **19 Dec 2024** | **BH102-1.4-1.6** | **SE276220** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **19 Dec 2024** | **BH102-3.0-3.2** | **SE276220** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **QA03** | **SE275864** | 49 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | <0.1 | 0.4 | <0.1 | 0.2 | 0.2 |
| **09 Dec 2024** | **QA03-A** | **1173417** | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <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 |
| **10 Dec 2024** | **QA04** | **SE275864** | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **QA04-A** | **1173417** | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <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 |
| **11 Dec 2024** | **QA06** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Notes:**

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

**Environmental Standards**

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | |

| | | | | | | | | | | | | | | | VOCs | | | Pesticides | MAH | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene | Total OCPb | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | Mirex | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | Styrene | tert-butylbenzene | Other chlorinated hydrocarbons EPAVic | Chlorinated hydrocarbons EPAVic | 1,1,1,2-tetrachloroethane |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | | 10 | 1 | 24 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 | 1.8 | 0.1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | | | | | | | | 50[b] | | | | | | | | | | | | 60 | | | | 200 |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | | | | | | | | 50[a] | | | | | | | | | | | | 108 | | | | 360 |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | | | | | | | | 50[b] | | | | | | | | | | | | 240 | | | | 800 |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | | | | | | | | 50[b] | | | | | | | | | | | | 432 | | | | 1,440 |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **TP101-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP102-0.1-0.5** | | - | - | - | - | - | - | - | - | - | - | - | - | <10 | <1 | <24 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **10 Dec 2024** | **TP103-0.1-0.2** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP104-0.2-0.6** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP106-0.1-0.5** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **10 Dec 2024** | **TP107-0.5-0.6** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP107-1.1-1.2** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP108-0.2-0.5** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP108-0.6-1.0** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP109-0.2-0.3** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **09 Dec 2024** | **TP110-0.1-0.2** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP110-0.6-0.7** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP111-0.4-0.5** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.4 | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **09 Dec 2024** | **TP112-0.3-0.4** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP113-0.6-0.7** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP113-1.0-1.1** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP114-0.1-0.2** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP114-2.1-2.2** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP115-0.3-0.4** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP116-0.6--0.7** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP117-0.1-0.2** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP118-0.3-0.4** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP119-0.8-0.9** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP120-0.3-0.4** | | - | - | - | - | - | - | - | - | - | - | - | - | <10 | <1 | <24 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **10 Dec 2024** | **TP121-0.8-1.0** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP122-0.1-0.5** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **10 Dec 2024** | **TP122-0.8-1.0** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP123-0.1-0.4** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **10 Dec 2024** | **TP123-0.4-0.7** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP125-0.1-0.3** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP125-0.4-0.8** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.1-0.4** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.4-0.6** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.1-0.3** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.9-1.2** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.1-0.4** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.4-1.0** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.1-0.5** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.5-1.0** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.1-0.6** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.6-1.0** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP131-0.1-0.5** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP131-0.5-1.1** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.2-0.3** | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.5-0.6** | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **19 Dec 2024** | **BH102-1.4-1.6** | **SE276220** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **19 Dec 2024** | **BH102-3.0-3.2** | **SE276220** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| **09 Dec 2024** | **QA03** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **QA03-A** | **1173417** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **QA04** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **QA04-A** | **1173417** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **QA06** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Notes:**

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

**Environmental Standards**

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromodichloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | 600 | 26 | 24 | | 14 | | | | 10 | | | | | | | 10 | | | 120 | | | | | 172 | | 10 | 14 | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | 1,080 | 46.8 | 43.2 | | 25 | | | | 18 | | | | | | | 18 | | | 126 | | | | | 310 | | 18 | 25.2 | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | 2,400 | 104 | 96 | | 56 | | | | 40 | | | | | | | 40 | | | 480 | | | | | 688 | | 40 | 56 | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | 4,320 | 187.2 | 172.8 | | 100 | | | | 72 | | | | | | | 72 | | | 864 | | | | | 1,240 | | 72 | 100.8 | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **TP101-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP102-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | 0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP103-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP104-0.2-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP106-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP107-0.5-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP107-1.1-1.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP108-0.2-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP108-0.6-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP109-0.2-0.3** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP110-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP110-0.6-0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP111-0.4-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **TP112-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP113-0.6-0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP113-1.0-1.1** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP114-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP114-2.1-2.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP115-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP116-0.6--0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP117-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP118-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP119-0.8-0.9** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP120-0.3-0.4** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP121-0.8-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP122-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP122-0.8-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP123-0.1-0.4** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **TP123-0.4-0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP125-0.1-0.3** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP125-0.4-0.8** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.1-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.4-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.1-0.3** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.9-1.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.1-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.4-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.5-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.1-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.6-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP131-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP131-0.5-1.1** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.2-0.3** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.5-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **19 Dec 2024** | **BH102-1.4-1.6** | **SE276220** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **19 Dec 2024** | **BH102-3.0-3.2** | **SE276220** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **QA03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **QA03-A** | **1173417** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **QA04** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **QA04-A** | **1173417** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **QA06** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Notes:**

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

**Environmental Standards**

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | Halogenated Benzenes | | | | | | | | | | Solvents | | | | | | | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Allyl chloride | Carbon disulfide | MTBE | Vinyl acetate | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.1 | 0.1 | 0.1 | 0.05 | 10 | 5 | 1 | 10 | 0.1 | 0.1 | 0.5 | 0.1 | 10 | 0.1 | 1 | 1 | 5 | 1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | 4 | | | 86 | | 150 | | | | 2,000 | | 4,000 | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | 7.2 | | | 155 | | 270 | | | | 3,600 | | 7,200 | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | 16 | | | 344 | | 600 | | | | 8,000 | | 16,000 | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | 28.8 | | | 620 | | 1,080 | | | | 14,400 | | 28,800 | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **TP101-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP102-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **10 Dec 2024** | **TP103-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP104-0.2-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP106-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **10 Dec 2024** | **TP107-0.5-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP107-1.1-1.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP108-0.2-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP108-0.6-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP109-0.2-0.3** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **09 Dec 2024** | **TP110-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP110-0.6-0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP111-0.4-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **09 Dec 2024** | **TP112-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP113-0.6-0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP113-1.0-1.1** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP114-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP114-2.1-2.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP115-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP116-0.6--0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP117-0.1-0.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP118-0.3-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **TP119-0.8-0.9** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP120-0.3-0.4** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **10 Dec 2024** | **TP121-0.8-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP122-0.1-0.5** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **10 Dec 2024** | **TP122-0.8-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP123-0.1-0.4** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **10 Dec 2024** | **TP123-0.4-0.7** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP125-0.1-0.3** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP125-0.4-0.8** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.1-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **TP126-0.4-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.1-0.3** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP127-0.9-1.2** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.1-0.4** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP128-0.4-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP129-0.5-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.1-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP130-0.6-1.0** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP131-0.1-0.5** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP131-0.5-1.1** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.2-0.3** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **TP132-0.5-0.6** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **19 Dec 2024** | **BH102-1.4-1.6** | **SE276220** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **19 Dec 2024** | **BH102-3.0-3.2** | **SE276220** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| **09 Dec 2024** | **QA03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Dec 2024** | **QA03-A** | **1173417** | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **QA04** | **SE275864** | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **QA04-A** | **1173417** | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **QA06** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Notes:**

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

**Environmental Standards**

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Date | 09 Dec 2024 | 09 Dec 2024 | | 09 Dec 2024 | 09 Dec 2024 | |
| | | Field ID | TP117-0.1-0.2 | QA03 | | TP117-0.1-0.2 | QA03-A | |
| | | Lab Report Number | SE275864 | SE275864 | | SE275864 | 1173417 | |
| | | Matrix Type | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | EQL | | | | | | |
| **Metals** | | | | | | | | |
| Arsenic | mg/kg | 1 | 6 | 5 | 18 | 6 | 7.0 | 15 |
| Cadmium | mg/kg | 0.3 | <0.3 | <0.3 | 0 | <0.3 | <0.4 | 0 |
| Chromium (III+VI) | mg/kg | 0.5 | 13 | 9.5 | 31 | 13 | 14 | 7 |
| Copper | mg/kg | 0.5 | 12 | 15 | 22 | 12 | 15 | 22 |
| Lead | mg/kg | 1 | 26 | 33 | 24 | 26 | 34 | 27 |
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | <0.1 | 0 |
| Nickel | mg/kg | 0.5 | 5.3 | 5.2 | 2 | 5.3 | 6.7 | 23 |
| Zinc | mg/kg | 2 | 38 | 55 | 37 | 38 | 56 | 38 |
| **Acid Sulphate Soils** | | | | | | | | |
| pH (CaCl2) | - | 0.1 | - | - | - | - | - | - |
| **TRH** | | | | | | | | |
| C6-C10 Fraction (F1) | mg/kg | 20 | <25 | <25 | 0 | <25 | <20 | 0 |
| C6-C10 (F1 minus BTEX) | mg/kg | 20 | <25 | <25 | 0 | <25 | <20 | 0 |
| >C10-C16 Fraction (F2) | mg/kg | 25 | <25 | <25 | 0 | <25 | <50 | 0 |
| >C10-C16 Fraction (F2 minus Naphthalene) | mg/kg | 25 | <25 | <25 | 0 | <25 | <50 | 0 |
| >C16-C34 Fraction (F3) | mg/kg | 90 | <90 | <90 | 0 | <90 | <100 | 0 |
| >C34-C40 Fraction (F4) | mg/kg | 100 | <120 | <120 | 0 | <120 | <100 | 0 |
| >C10-C40 Fraction (Sum) | mg/kg | 100 | <210 | <210 | 0 | <210 | <100 | 0 |
| **TPH** | | | | | | | | |
| C37-C40 Fraction | µg/kg | 100,000 | <100,000 | <100,000 | 0 | <100,000 | - | - |
| C6-C9 Fraction | mg/kg | 20 | <20 | <20 | 0 | <20 | <20 | 0 |
| C10-C14 Fraction | mg/kg | 20 | <20 | <20 | 0 | <20 | <20 | 0 |
| C15-C28 Fraction | mg/kg | 45 | 45 | <45 | 0 | 45 | <50 | 0 |
| C29-C36 Fraction | mg/kg | 45 | 57 | 49 | 15 | 57 | <50 | 13 |
| C10-C36 Fraction (Sum) | mg/kg | 50 | <110 | <110 | 0 | <110 | <50 | 0 |
| **BTEXN** | | | | | | | | |
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Xylene (m & p) | mg/kg | 0.2 | <0.2 | <0.2 | 0 | <0.2 | <0.2 | 0 |
| Xylene (o) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Xylene Total | mg/kg | 0.3 | <0.3 | <0.3 | 0 | <0.3 | <0.3 | 0 |
| Naphthalene (VOC) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Total BTEX | mg/kg | 0.6 | <0.6 | <0.6 | 0 | <0.6 | - | - |
| **PAH** | | | | | | | | |
| 1-Methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Benz(a)anthracene | mg/kg | 0.1 | 0.2 | 0.1 | 67 | 0.2 | <0.5 | 0 |
| Benzo(a) pyrene | mg/kg | 0.1 | 0.2 | 0.2 | 0 | 0.2 | <0.5 | 0 |
| Benzo(b+j)fluoranthene | mg/kg | 0.1 | 0.2 | 0.1 | 67 | 0.2 | <0.5 | 0 |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | 0.2 | 0.2 | 0 | 0.2 | <0.5 | 0 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | 0.2 | 0.1 | 67 | 0.2 | <0.5 | 0 |
| Chrysene | mg/kg | 0.1 | 0.2 | 0.1 | 67 | 0.2 | <0.5 | 0 |
| Dibenz(a,h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Fluoranthene | mg/kg | 0.1 | 0.5 | 0.4 | 22 | 0.5 | <0.5 | 0 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | 0.2 | 0.2 | 0 | 0.2 | <0.5 | 0 |
| Phenanthrene | mg/kg | 0.1 | 0.3 | 0.2 | 40 | 0.3 | <0.5 | 0 |
| Pyrene | mg/kg | 0.1 | 0.5 | 0.4 | 22 | 0.5 | <0.5 | 0 |
| Benzo(a)pyrene TEQ calc (Half) | mg/kg | 0.2 | 0.4 | 0.3 | 29 | 0.4 | 0.6 | 40 |
| Benzo(a)pyrene TEQ (LOR) | mg/kg | 0.3 | 0.4 | 0.3 | 29 | 0.4 | 1.2 | 100 |
| Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.2 | 0.3 | 0.2 | 40 | 0.3 | <0.5 | 0 |
| PAHs (Sum of total) | mg/kg | 0.5 | 2.5 | 2.1 | 17 | 2.5 | <0.5 | 133 |
| PAHs (Sum of positives) | mg/kg | 0.8 | 2.5 | 2.1 | 17 | 2.5 | - | - |
| **Pesticides** | | | | | | | | |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - |
| **Other** | | | | | | | | |
| Estimated Fibres | mg/kg | 100 | <100 | - | - | <100 | - | - |
| **Organochlorine Pesticides** | | | | | | | | |
| Organochlorine pesticides EPAVic | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Other organochlorine pesticides EPAVic | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| 4,4-DDE | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| a-BHC | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Aldrin | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Aldrin + Dieldrin | mg/kg | 0.05 | - | - | - | - | <0.05 | - |
| b-BHC | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Chlordane (cis) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - |
| Chlordane (technical) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - |
| d-BHC | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| DDD | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| DDT | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| DDT+DDE+DDD | mg/kg | 0.05 | - | - | - | - | <0.05 | - |
| Dieldrin | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Endosulfan I | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Endosulfan II | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Endosulfan sulphate | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Endrin | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Endrin aldehyde | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Endrin ketone | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| g-BHC (Lindane) | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Heptachlor | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Heptachlor epoxide | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Methoxychlor | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| Toxaphene | mg/kg | 0.5 | - | - | - | - | <0.5 | - |
| **Halogenated Benzenes** | | | | | | | | |
| Hexachlorobenzene | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 |
| **PCBs** | | | | | | | | |
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Arochlor 1221 | mg/kg | 0.1 | - | - | - | - | <0.1 | - |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| PCBs (Sum of total) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 |
| **Inorganics** | | | | | | | | |
| % Moisture | % | 1 | 20.4 | 11.7 | 54 | 20.4 | - | - |
| Electrical Conductivity (Lab) | µS/cm | 1 | - | - | - | - | - | - |
| Moisture Content (dried @ 103°C) | % | 1 | - | - | - | - | 9.7 | - |

***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: 100 (1 - 5 x EQL); 75 (5 - 10 x EQL); 30 ( > 10 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**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Date | | 10 Dec 2024 | 10 Dec 2024 | | 10 Dec 2024 | 10 Dec 2024 | | 11 Dec 2024 | 11 Dec 2024 | |
| | Field ID | | TP103-0.1-0.2 | QA04 | | TP103-0.1-0.2 | QA04-A | | TP131-0.5-1.1 | QA06 | |
| | Lab Report Number | | SE275864 | SE275864 | | SE275864 | 1173417 | | SE275864 | SE275864 | |
| | Matrix Type | | Soil | Soil | RPD | Soil | Soil | RPD | Soil | Soil | RPD |
| | Unit | EQL | | | | | | | | | |
| **Metals** | | | | | | | | | | | |
| Arsenic | mg/kg | 1 | 6 | 9 | 40 | 6 | 15 | 86 | 5 | 3 | 50 |
| Cadmium | mg/kg | 0.3 | <0.3 | <0.3 | 0 | <0.3 | <0.4 | 0 | <0.3 | <0.3 | 0 |
| Chromium (III+VI) | mg/kg | 0.5 | 12 | 14 | 15 | 12 | 25 | 70 | 9.4 | 7.7 | 20 |
| Copper | mg/kg | 0.5 | 14 | 16 | 13 | 14 | 32 | 78 | 41 | 18 | 78 |
| Lead | mg/kg | 1 | 26 | 26 | 0 | 26 | 40 | 42 | 51 | 9 | 140 |
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | <0.1 | 0 | <0.05 | <0.05 | 0 |
| Nickel | mg/kg | 0.5 | 7.7 | 7.4 | 4 | 7.7 | 13 | 51 | 62 | 4.6 | 172 |
| Zinc | mg/kg | 2 | 59 | 30 | 65 | 59 | 52 | 13 | 80 | 39 | 69 |
| **Acid Sulphate Soils** | | | | | | | | | | | |
| pH (CaCl2) | - | 0.1 | - | - | - | - | - | - | 6.7 | - | - |
| **TRH** | | | | | | | | | | | |
| C6-C10 Fraction (F1) | mg/kg | 20 | <25 | <25 | 0 | <25 | <20 | 0 | - | - | - |
| C6-C10 (F1 minus BTEX) | mg/kg | 20 | <25 | <25 | 0 | <25 | <20 | 0 | - | - | - |
| >C10-C16 Fraction (F2) | mg/kg | 25 | <25 | <25 | 0 | <25 | <50 | 0 | - | - | - |
| >C10-C16 Fraction (F2 minus Naphthalene) | mg/kg | 25 | <25 | <25 | 0 | <25 | <50 | 0 | - | - | - |
| >C16-C34 Fraction (F3) | mg/kg | 90 | <90 | <90 | 0 | <90 | <100 | 0 | - | - | - |
| >C34-C40 Fraction (F4) | mg/kg | 100 | <120 | <120 | 0 | <120 | <100 | 0 | - | - | - |
| >C10-C40 Fraction (Sum) | mg/kg | 100 | <210 | <210 | 0 | <210 | <100 | 0 | - | - | - |
| **TPH** | | | | | | | | | | | |
| C37-C40 Fraction | µg/kg | 100,000 | <100,000 | <100,000 | 0 | <100,000 | - | - | - | - | - |
| C6-C9 Fraction | mg/kg | 20 | <20 | <20 | 0 | <20 | <20 | 0 | - | - | - |
| C10-C14 Fraction | mg/kg | 20 | <20 | <20 | 0 | <20 | <20 | 0 | - | - | - |
| C15-C28 Fraction | mg/kg | 45 | <45 | <45 | 0 | <45 | <50 | 0 | - | - | - |
| C29-C36 Fraction | mg/kg | 45 | <45 | <45 | 0 | <45 | <50 | 0 | - | - | - |
| C10-C36 Fraction (Sum) | mg/kg | 50 | <110 | <110 | 0 | <110 | <50 | 0 | - | - | - |
| **BTEXN** | | | | | | | | | | | |
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Xylene (m & p) | mg/kg | 0.2 | <0.2 | <0.2 | 0 | <0.2 | <0.2 | 0 | - | - | - |
| Xylene (o) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Xylene Total | mg/kg | 0.3 | <0.3 | <0.3 | 0 | <0.3 | <0.3 | 0 | - | - | - |
| Naphthalene (VOC) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Total BTEX | mg/kg | 0.6 | <0.6 | <0.6 | 0 | <0.6 | - | - | - | - | - |
| **PAH** | | | | | | | | | | | |
| 1-Methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Benz(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Benzo(a) pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Benzo(b+j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Dibenz(a,h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Fluoranthene | mg/kg | 0.1 | 0.1 | <0.1 | 0 | 0.1 | <0.5 | 0 | - | - | - |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.5 | 0 | - | - | - |
| Pyrene | mg/kg | 0.1 | 0.1 | <0.1 | 0 | 0.1 | <0.5 | 0 | - | - | - |
| Benzo(a)pyrene TEQ calc (Half) | mg/kg | 0.2 | <0.2 | <0.2 | 0 | <0.2 | 0.6 | 100 | - | - | - |
| Benzo(a)pyrene TEQ (LOR) | mg/kg | 0.3 | <0.3 | <0.3 | 0 | <0.3 | 1.2 | 120 | - | - | - |
| Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.2 | <0.2 | <0.2 | 0 | <0.2 | <0.5 | 0 | - | - | - |
| PAHs (Sum of total) | mg/kg | 0.5 | <0.8 | <0.8 | 0 | <0.8 | <0.5 | 0 | - | - | - |
| PAHs (Sum of positives) | mg/kg | 0.8 | <0.8 | <0.8 | 0 | <0.8 | - | - | - | - | - |
| **Pesticides** | | | | | | | | | | | |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - |
| **Other** | | | | | | | | | | | |
| Estimated Fibres | mg/kg | 100 | <100 | - | - | <100 | - | - | - | - | - |
| **Organochlorine Pesticides** | | | | | | | | | | | |
| Organochlorine pesticides EPAVic | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Other organochlorine pesticides EPAVic | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| 4,4-DDE | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| a-BHC | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Aldrin | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Aldrin + Dieldrin | mg/kg | 0.05 | - | - | - | - | <0.05 | - | - | - | - |
| b-BHC | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Chlordane (cis) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - |
| Chlordane (technical) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | - | - | - | - | - |
| d-BHC | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| DDD | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| DDT | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| DDT+DDE+DDD | mg/kg | 0.05 | - | - | - | - | <0.05 | - | - | - | - |
| Dieldrin | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Endosulfan I | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Endosulfan II | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Endosulfan sulphate | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Endrin | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Endrin aldehyde | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Endrin ketone | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| g-BHC (Lindane) | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Heptachlor | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Heptachlor epoxide | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Methoxychlor | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| Toxaphene | mg/kg | 0.5 | - | - | - | - | <0.5 | - | - | - | - |
| **Halogenated Benzenes** | | | | | | | | | | | |
| Hexachlorobenzene | mg/kg | 0.05 | <0.1 | <0.1 | 0 | <0.1 | <0.05 | 0 | - | - | - |
| **PCBs** | | | | | | | | | | | |
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Arochlor 1221 | mg/kg | 0.1 | - | - | - | - | <0.1 | - | - | - | - |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| PCBs (Sum of total) | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | <0.1 | 0 | - | - | - |
| **Inorganics** | | | | | | | | | | | |
| % Moisture | % | 1 | 24.3 | 27.2 | 11 | 24.3 | - | - | 11.8 | 24.6 | 70 |
| Electrical Conductivity (Lab) | µS/cm | 1 | - | - | - | - | - | - | 200 | - | - |
| Moisture Content (dried @ 103°C) | % | 1 | - | - | - | - | 19 | - | - | - | - |

**RPDs have only been considered where a concentration is greater than 1 times
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs
***Interlab Duplicates are matched on a per compound basis as methods vary b

| | | | Date | 09 Jan 2025 | 09 Jan 2025 | |
|---|---|---|---|---|---|---|
| | | | Field ID | BH101 | QA01 | |
| | | | Lab Report Number | SE276667 | SE276667 | |
| | | | Matrix Type | Water | Water | RPD |
| | Unit | EQL | | | | |
| **Metals** | | | | | | |
| Arsenic (filtered) | mg/L | 0.001 | | 0.009 | 0.009 | 0 |
| Cadmium (filtered) | mg/L | 0.0001 | | <0.0001 | <0.0001 | 0 |
| Chromium (III+VI) (filtered) | mg/L | 0.001 | | <0.001 | <0.001 | 0 |
| Copper (filtered) | mg/L | 0.001 | | <0.001 | <0.001 | 0 |
| Lead (filtered) | mg/L | 0.001 | | <0.001 | <0.001 | 0 |
| Mercury (filtered) | mg/L | 0.0001 | | <0.0001 | <0.0001 | 0 |
| Nickel (filtered) | mg/L | 0.001 | | 0.045 | 0.043 | 5 |
| Zinc (filtered) | mg/L | 0.005 | | <0.005 | <0.005 | 0 |
| **TRH** | | | | | | |
| C6-C10 Fraction (F1) | µg/L | 50 | | <50 | <50 | 0 |
| C6-C10 (F1 minus BTEX) | µg/L | 50 | | <50 | <50 | 0 |
| >C10-C16 Fraction (F2) | µg/L | 60 | | <60 | - | - |
| >C10-C16 Fraction (F2 minus Naphthalene) | µg/L | 60 | | <60 | - | - |
| >C16-C34 Fraction (F3) | µg/L | 500 | | <500 | - | - |
| >C34-C40 Fraction (F4) | µg/L | 500 | | <500 | - | - |
| >C10-C40 Fraction (Sum) | µg/L | 320 | | <320 | - | - |
| **TPH** | | | | | | |
| C37-C40 Fraction | µg/L | 200 | | <200 | - | - |
| C6-C9 Fraction | µg/L | 40 | | <40 | <40 | 0 |
| C10-C14 Fraction | µg/L | 50 | | <50 | - | - |
| C15-C28 Fraction | µg/L | 200 | | <200 | - | - |
| C29-C36 Fraction | µg/L | 200 | | <200 | - | - |
| **BTEXN** | | | | | | |
| Benzene | mg/L | 0.0005 | | <0.0005 | <0.0005 | 0 |
| Toluene | mg/L | 0.0005 | | <0.0005 | <0.0005 | 0 |
| Ethylbenzene | mg/L | 0.0005 | | <0.0005 | <0.0005 | 0 |
| Naphthalene | mg/L | 0.00002 | | 0.00005 | - | - |
| Xylene (m & p) | µg/L | 1 | | <1 | <1 | 0 |
| Xylene (o) | mg/L | 0.0005 | | <0.0005 | <0.0005 | 0 |
| Xylene Total | µg/L | 1.5 | | <1.5 | <1.5 | 0 |
| Naphthalene (VOC) | mg/L | 0.0005 | | <0.0005 | <0.0005 | 0 |
| Total BTEX | µg/L | 3 | | <3 | <3 | 0 |
| **PAH** | | | | | | |
| 1-Methylnaphthalene | µg/L | 0.01 | | 0.03 | - | - |
| 2-methylnaphthalene | µg/L | 0.01 | | 0.03 | - | - |
| Acenaphthene | µg/L | 0.01 | | 0.01 | - | - |
| Acenaphthylene | µg/L | 0.01 | | <0.01 | - | - |
| Anthracene | µg/L | 0.01 | | <0.01 | - | - |
| Benz(a)anthracene | µg/L | 0.01 | | <0.01 | - | - |
| Benzo(a) pyrene | µg/L | 0.01 | | <0.01 | - | - |
| Benzo(b+k)fluoranthene | µg/L | 0.02 | | <0.02 | - | - |
| Benzo(g,h,i)perylene | µg/L | 0.01 | | <0.01 | - | - |
| Chrysene | µg/L | 0.01 | | <0.01 | - | - |
| Dibenz(a,h)anthracene | µg/L | 0.01 | | <0.01 | - | - |
| Fluoranthene | µg/L | 0.01 | | <0.01 | - | - |
| Fluorene | µg/L | 0.01 | | <0.01 | - | - |
| Indeno(1,2,3-c,d)pyrene | µg/L | 0.01 | | <0.01 | - | - |
| Phenanthrene | µg/L | 0.01 | | 0.01 | - | - |
| Pyrene | µg/L | 0.01 | | <0.01 | - | - |
| Benzo(a)pyrene TEQ calc (Zero) | TEQ (µg/L) | 0.012 | | <0.012 | - | - |
| PAHs (Sum of total) | µg/L | 0.1 | | 0.1 | - | - |
| PAHs (Vic EPA List) | µg/L | 0.1 | | <0.1 | - | - |
| **NA** | | | | | | |
| Sum of US EPA PFAS (PFOS+PFOA) | µg/L | 0.0002 | | <0.0002 | - | - |
| Total Hardness as CaCO3 (filtered) | mg/L | 5 | | 1,200 | 1,200 | 0 |
| **Perfluoroalkyl Sulfonamides** | | | | | | |
| Perfluorooctane sulfonamide (FOSA) | µg/L | 0.005 | | <0.005 | - | - |
| N-Methyl perfluorooctane sulfonamide (MeFOSA) | µg/L | 0.005 | | <0.005 | - | - |
| N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA) | µg/L | 0.005 | | <0.005 | - | - |
| N-methyl perfluorooctane sulfonamidoethanol (MeFOSE) | µg/L | 0.005 | | <0.005 | - | - |
| N-Ethyl perfluorooctane sulfonamide (EtFOSA) | µg/L | 0.005 | | <0.005 | - | - |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) | µg/L | 0.005 | | <0.005 | - | - |
| N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE) | µg/L | 0.005 | | <0.005 | - | - |
| **MAH** | | | | | | |
| 1,2,4-trimethylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,3,5-trimethylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Isopropylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| n-butylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| n-propylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| p-isopropyltoluene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| sec-butylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Styrene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| tert-butylbenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| **PFAS** | | | | | | |
| Perfluorobutanesulfonate | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorododecane sulfonate (PFDoS) | µg/L | 0.002 | | <0.002 | - | - |
| Perfluorononanesulfonic acid (PFNS) | mg/L | 0.000001 | | <0.000001 | - | - |
| Sum of PFHxS and PFOS | µg/L | 0.0002 | | <0.0002 | - | - |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA) | µg/L | 0.0002 | | <0.0002 | - | - |
| **Perfluoroalkane Carboxylic Acids** | | | | | | |
| Perfluorobutanoic acid (PFBA) | µg/L | 0.005 | | <0.005 | - | - |
| Perfluoropentanoic acid (PFPeA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorohexanoic acid (PFHxA) | µg/L | 0.001 | | 0.004 | - | - |
| Perfluoroheptanoic acid (PFHpA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorooctanoic acid (PFOA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorononanoic acid (PFNA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorodecanoic acid (PFDA) | µg/L | 0.001 | | <0.001 | - | - |

| | | | Date | 09 Jan 2025 | 09 Jan 2025 | |
|---|---|---|---|---|---|---|
| | | | Field ID | BH101 | QA01 | |
| | | | Lab Report Number | SE276667 | SE276667 | |
| | | | Matrix Type | Water | Water | RPD |
| | Unit | EQL | | | | |
| Perfluorododecanoic acid (PFDoDA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorotetradecanoic acid (PFTeDA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorotridecanoic acid (PFTrDA) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluoroundecanoic acid (PFUnDA) | µg/L | 0.001 | | <0.001 | - | - |
| **Perfluoroalkane Sulfonic Acids** | | | | | | |
| Perfluoropentane sulfonic acid (PFPeS) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluoropropanesulfonic acid (PFPrS) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorohexane sulfonic acid (PFHxS) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluoroheptane sulfonic acid (PFHpS) | µg/L | 0.001 | | <0.001 | - | - |
| Perfluorooctane sulfonic acid (PFOS) | µg/L | 0.0002 | | <0.0002 | - | - |
| Perfluorodecane sulfonic acid (PFDS) | µg/L | 0.001 | | <0.001 | - | - |
| **(n:2) Fluorotelomer Sulfonic Acids** | | | | | | |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTS) | µg/L | 0.002 | | <0.002 | - | - |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | µg/L | 0.002 | | <0.002 | - | - |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | µg/L | 0.002 | | <0.002 | - | - |
| **Chlorinated Hydrocarbons** | | | | | | |
| 1,1,1,2-tetrachloroethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,1,1-trichloroethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,1,2,2-tetrachloroethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,1,2-trichloroethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,1-dichloroethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,1-dichloroethene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,1-dichloropropene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,2,3-trichloropropane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,2-dibromo-3-chloropropane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,2-dichloroethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,2-dichloropropane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,3-dichloropropane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 2,2-dichloropropane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Bromochloromethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Bromodichloromethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Bromoform | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Carbon tetrachloride | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Chlorodibromomethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Chloroethane | µg/L | 5 | | <5 | <5 | 0 |
| Chloroform | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Chloromethane | µg/L | 5 | | <5 | <5 | 0 |
| cis-1,2-dichloroethene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| cis-1,3-dichloropropene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Dibromomethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Dichloromethane | µg/L | 5 | | <5 | <5 | 0 |
| Hexachlorobutadiene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Trichloroethene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Tetrachloroethene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| trans-1,2-dichloroethene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| trans-1,3-dichloropropene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Vinyl chloride | µg/L | 0.3 | | <0.3 | <0.3 | 0 |
| **Halogenated Benzenes** | | | | | | |
| 1,2,3-trichlorobenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,2,4-trichlorobenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,2-dichlorobenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,3-dichlorobenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 1,4-dichlorobenzene | µg/L | 0.3 | | <0.3 | <0.3 | 0 |
| 2-chlorotoluene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| 4-chlorotoluene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Bromobenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Chlorobenzene | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| **Solvents** | | | | | | |
| Methyl Ethyl Ketone | µg/L | 10 | | <10 | <10 | 0 |
| 2-hexanone (MBK) | µg/L | 5 | | <5 | <5 | 0 |
| 4-Methyl-2-pentanone | µg/L | 5 | | <5 | <5 | 0 |
| Acetone | mg/L | 0.01 | | <0.01 | <0.01 | 0 |
| Acrylonitrile | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Allyl chloride | mg/L | 0.002 | | <0.002 | <0.002 | 0 |
| Carbon disulfide | µg/L | 2 | | <2 | <2 | 0 |
| MTBE | mg/L | 0.0005 | | <0.0005 | <0.0005 | 0 |
| Vinyl acetate | µg/L | 10 | | <10 | <10 | 0 |
| **VOCs** | | | | | | |
| 2-Nitropropane | mg/L | 0.1 | | <0.1 | <0.1 | 0 |
| trans-1,4-Dichloro-2-butene | µg/L | 1 | | <1 | <1 | 0 |
| Total VOCs | µg/L | 10 | | <10 | <10 | 0 |
| **Halogenated Hydrocarbons** | | | | | | |
| 1,2-dibromoethane | µg/L | 0.5 | | <0.5 | <0.5 | 0 |
| Bromomethane | µg/L | 10 | | <10 | <10 | 0 |
| Dichlorodifluoromethane | µg/L | 5 | | <5 | <5 | 0 |
| Iodomethane | µg/L | 5 | | <5 | <5 | 0 |
| Trichlorofluoromethane | µg/L | 1 | | <1 | <1 | 0 |

***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: 80 (1 - 5 x EQL); 80 (5 - 10 x EQL); 50 ( > 10 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**

| | | | TRH | | | | | | | | TPH | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 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) | C37-C40 Fraction | C6-C9 Fraction | | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | Benzene | | |
| | | | mg/kg | µg/L | mg/kg | µg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | µg/kg | mg/kg | µg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | % | mg/L |
| EQL | | | 20 | 50 | 20 | 50 | 25 | 25 | 90 | 100 | 100 | 100,000 | 20 | 40 | 20 | 45 | 45 | 50 | 0.1 | - | 0.0005 |
| Accceptable Control Limits | | | | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **05 Dec 2024** | **Trip Blank 01** | **SE275864** | <25 | - | <25 | - | <25 | <25 | <90 | <120 | <210 | <100,000 | <20 | - | <20 | <45 | <45 | <110 | <0.1 | - | - |
| **05 Dec 2024** | **Trip Blank 02** | **SE275864** | <25 | - | <25 | - | <25 | <25 | <90 | <120 | <210 | <100,000 | <20 | - | <20 | <45 | <45 | <110 | <0.1 | - | - |
| **05 Dec 2024** | **Trip Blank 03** | **SE275864** | <25 | - | <25 | - | <25 | <25 | <90 | <120 | <210 | <100,000 | <20 | - | <20 | <45 | <45 | <110 | <0.1 | - | - |
| **05 Dec 2024** | **Trip Spike 01** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 93 | - |
| **05 Dec 2024** | **Trip Spike 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 | - |
| **05 Dec 2024** | **Trip Spike 03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 102 | - |
| **09 Jan 2025** | **PFAS BLANK** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Jan 2025** | **Trip Spike - Water** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 125 | - |
| **09 Jan 2025** | **Trip Blank - Water** | **SE276667** | - | <50 | - | <50 | - | - | - | - | - | - | - | <40 | - | - | - | - | - | - | <0.0005 |

| | | | BTEXN | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Toluene | | | Ethylbenzene | | | Xylene (m & p) | | | Xylene (o) | | | Xylene Total | | Naphthalene (VOC) | | | Total BTEX | Total BTEX |
| | | | mg/kg | % | mg/L | mg/kg | % | mg/L | mg/kg | % | µg/L | mg/kg | % | mg/L | mg/kg | µg/L | mg/kg | % | mg/L | mg/kg | µg/L |
| EQL | | | 0.1 | - | 0.0005 | 0.1 | - | 0.0005 | 0.2 | - | 1 | 0.1 | - | 0.0005 | 0.3 | 1.5 | 0.1 | - | 0.0005 | 0.6 | 3 |
| Accceptable Control Limits | | | | 70-130 | | | 70-130 | | | 70-130 | | | 70-130 | | | | | 70-130 | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **05 Dec 2024** | **Trip Blank 01** | **SE275864** | <0.1 | - | - | <0.1 | - | - | <0.2 | - | - | <0.1 | - | - | <0.3 | - | <0.1 | - | - | <0.6 | - |
| **05 Dec 2024** | **Trip Blank 02** | **SE275864** | <0.1 | - | - | <0.1 | - | - | <0.2 | - | - | <0.1 | - | - | <0.3 | - | <0.1 | - | - | <0.6 | - |
| **05 Dec 2024** | **Trip Blank 03** | **SE275864** | <0.1 | - | - | <0.1 | - | - | <0.2 | - | - | <0.1 | - | - | <0.3 | - | <0.1 | - | - | <0.6 | - |
| **05 Dec 2024** | **Trip Spike 01** | **SE275864** | - | 83 | - | - | 84 | - | - | 84 | - | - | 82 | - | - | - | <0.1 | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 02** | **SE275864** | - | 102 | - | - | 101 | - | - | 102 | - | - | 102 | - | - | - | <0.1 | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 03** | **SE275864** | - | 106 | - | - | 106 | - | - | 106 | - | - | 107 | - | - | - | <0.1 | - | - | - | - |
| **09 Jan 2025** | **PFAS BLANK** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Jan 2025** | **Trip Spike - Water** | **SE276667** | - | 125 | - | - | 98 | - | - | 96 | - | - | 97 | - | - | - | - | 92 | - | - | - |
| **09 Jan 2025** | **Trip Blank - Water** | **SE276667** | - | - | <0.0005 | - | - | <0.0005 | - | - | <1 | - | - | <0.0005 | - | <1.5 | - | - | <0.0005 | - | <3 |

| | | | NA | Perfluoroalkyl Sulfonamides | | | | | | | PFAS | | | | | Perfluoroalkane Carbo | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sum of US EPA PFAS (PFOS+PFOA) | Perfluorooctane sulfonamide (FOSA) | N-Methyl perfluorooctane sulfonamide (MeFOSA) | N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA) | N-methyl perfluorooctane sulfonamidoethanol (MeFOSE) | N-Ethyl perfluorooctane sulfonamide (EtFOSA) | N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) | N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE) | Perfluorobutanesulfonate | Perfluorododecane sulfonate (PFDoS) | Perfluorononanesulfonic acid (PFNS) | Sum of PFHxS and PFOS | Sum of enHealth PFAS (PFHxS + PFOS + PFOA) | Perfluorobutanoic acid (PFBA) | Perfluoropentanoic acid (PFPeA) | Perfluorohexanoic acid (PFHxA) | Perfluoroheptanoic acid (PFHpA) | Perfluorooctanoic acid (PFOA) | Perfluorononanoic acid (PFNA) |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | 0.0002 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.001 | 0.002 | 0.000001 | 0.0002 | 0.0002 | 0.005 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Accceptable Control Limits | | | | | | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **05 Dec 2024** | **Trip Blank 01** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Blank 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Blank 03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 01** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Jan 2025** | **PFAS BLANK** | **SE276667** | <0.0002 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | <0.0002 | <0.0002 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| **09 Jan 2025** | **Trip Spike - Water** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Jan 2025** | **Trip Blank - Water** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | ylic Acids | | | | | Perfluoroalkane Sulfonic Acids | | | | | | (n:2) Fluorotelomer Sulfonic Acids | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Perfluorodecanoic acid (PFDA) | Perfluorododecanoic acid (PFDoDA) | Perfluorotetradecanoic acid (PFTeDA) | Perfluorotridecanoic acid (PFTrDA) | Perfluoroundecanoic acid (PFUnDA) | Perfluoropentane sulfonic acid (PFPeS) | Perfluoropropanesulfonic acid (PFPrS) | Perfluorohexane sulfonic acid (PFHxS) | Perfluoroheptane sulfonic acid (PFHpS) | Perfluorooctane sulfonic acid (PFOS) | Perfluorodecane sulfonic acid (PFDS) | 4:2 Fluorotelomer sulfonic acid (4:2 FTS) | 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 8:2 Fluorotelomer sulfonic acid (8:2 FTS) |
| | | | 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 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.0002 | 0.001 | 0.002 | 0.002 | 0.002 |
| Accceptable Control Limits | | | | | | | | | | | | | | | | |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | |
| **05 Dec 2024** | **Trip Blank 01** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Blank 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Blank 03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 01** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **05 Dec 2024** | **Trip Spike 03** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Jan 2025** | **PFAS BLANK** | **SE276667** | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.0002 | <0.001 | <0.002 | <0.002 | <0.002 |
| **09 Jan 2025** | **Trip Spike - Water** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **09 Jan 2025** | **Trip Blank - Water** | **SE276667** | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | Metals | | | | | | | | TRH | | | | | | | TPH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic (filtered) | Cadmium (filtered) | Chromium (III+VI) (filtered) | Copper (filtered) | Lead (filtered) | Mercury (filtered) | Nickel (filtered) | Zinc (filtered) | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction |
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/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 | 0.0001 | 0.001 | 0.001 | 0.001 | 0.0001 | 0.001 | 0.005 | 50 | 50 | 60 | 60 | 500 | 500 | 320 | 200 | 40 | 50 | 200 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <0.001 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.005 | <50 | <50 | 93 | 93 | <500 | <500 | <320 | <200 | <40 | <50 | <200 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | <0.001 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.005 | <50 | <50 | 84 | 84 | <500 | <500 | <320 | <200 | <40 | <50 | <200 |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <0.001 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.005 | <50 | <50 | 89 | 89 | <500 | <500 | <320 | <200 | <40 | <50 | <200 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | <0.001 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.005 | <50 | <50 | 94 | 93 | <500 | <500 | <320 | <200 | <40 | <50 | <200 |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | <0.001 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.005 | <50 | <50 | 85 | 85 | <500 | <500 | <320 | <200 | <40 | <50 | <200 |

| | | | BTEXN | | | | | | | | | PA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | C29-C36 Fraction | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene |
| | | µg/L | mg/L | mg/L | mg/L | mg/L | µg/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | µg/L |
| EQL | | 200 | 0.0005 | 0.0005 | 0.0005 | 0.00002 | 1 | 0.0005 | 1.5 | 0.0005 | 3 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0001 | 0.01 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <200 | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <1 | <0.0005 | <1.5 | <0.0005 | <3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | <200 | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <1 | <0.0005 | <1.5 | <0.0005 | <3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <200 | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <1 | <0.0005 | <1.5 | <0.0005 | <3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | <200 | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <1 | <0.0005 | <1.5 | <0.0005 | <3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | <200 | <0.0005 | <0.0005 | <0.0005 | <0.0001 | <1 | <0.0005 | <1.5 | <0.0005 | <3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 |

| | H | | | | | | | | | Pesticides | MAH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Phenanthrene | Pyrene | PAHs (Sum of total) | Mirex | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | Styrene | tert-butylbenzene |
| | 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 | 0.1 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | - | - | - | - | - | - | - | - | - |

| | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Organochlorine pesticides EPAVic | 4,4-DDE | a-BHC | Aldrin | b-BHC | Chlordane (cis) | Chlordane (technical) | d-BHC | DDD | DDT | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/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 | | | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0001 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.0001 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | Chlorinated Hydrocarbons |
| | | | Heptachlor epoxide | Methoxychlor | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride |
| | | | 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 | | | 0.1 | 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 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <0.1 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <0.1 | <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | <0.1 | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | Halogenate |
| | | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene |
| | | 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 | | 0.5 | 5 | 0.5 | 5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | d Benzenes | | | | | PCBs | | | | | | | | Solvents | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | PCBs (Sum of total) | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Allyl chloride |
| | | | 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 | mg/L | µg/L | mg/L |
| EQL | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 10 | 5 | 5 | 0.01 | 0.5 | 0.002 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | | | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <10 | <5 | <5 | <0.01 | <0.5 | <0.002 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | - | - | - | - | <0.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | - | - | - | - | - | - |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <10 | <5 | <5 | <0.01 | <0.5 | <0.002 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | - | - | - | - | <0.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | - | - | - | - | - | - |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | - | - | - | - | <0.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | - | - | - | - | - | - |

| | | | | VOCs | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Carbon disulfide | MTBE | Vinyl acetate | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | µg/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | 2 | 0.0005 | 10 | 0.1 | 1 | 10 | 0.5 | 10 | 5 | 5 | 1 |
| **Date** | **Field ID** | **Lab Report Number** | | | | | | | | | |
| **09 Dec 2024** | **Rinsate 01** | **SE275864** | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| **09 Dec 2024** | **Rinsate 02** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - |
| **10 Dec 2024** | **Rinsate 03** | **SE275864** | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| **10 Dec 2024** | **Rinsate 04** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - |
| **11 Dec 2024** | **Rinsate 05** | **SE275864** | - | - | - | - | - | - | - | - | - | - | - |

Appendix I

# Laboratory Reports

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 80 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE275864 R0** |
| Date Received | 12/12/2024 |
| Date Reported | 24/12/2024 |

## COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
Sample #5: Chrysotile asbestos found in approx 3x2x1 mm cement sheet fragment below the RL of 0.1g/kg.
Sample #11: Chrysotile asbestos found in approx 15x10x5mm cement sheet fragment.
Sample #33: Chrysotile asbestos found in approx 10x3x2mm cement sheet fragment x7 below the RL of 0.1g/kg.
Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Cameron Smith .
Clay content subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No. CE179310.

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Ly Kim HA**
Organic Section Head

**Ravee SIVASUBRAMANIAM**
Hygiene Team Leader

**Shane MCDERMOTT**
Laboratory Manager

**Teresa NGUYEN**
Organic Chemist

**Ying Ying ZHANG**
Laboratory Technician

## VOC's in Soil [AN433] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | <1 | - | - | - | - |
| Chloromethane | mg/kg | 1 | <1 | - | - | - | - |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Bromomethane | mg/kg | 1 | <1 | - | - | - | - |
| Chloroethane | mg/kg | 1 | <1 | - | - | - | - |
| Trichlorofluoromethane | mg/kg | 1 | <1 | - | - | - | - |
| Acetone (2-propanone) | mg/kg | 10 | <10 | - | - | - | - |
| Iodomethane | mg/kg | 5 | <5 | - | - | - | - |
| 1,1-dichloroethene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Acrylonitrile | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | <0.5 | - | - | - | - |
| Allyl chloride | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Carbon disulfide | mg/kg | 0.5 | <0.5 | - | - | - | - |
| trans-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,1-dichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Vinyl acetate* | mg/kg | 10 | <10 | - | - | - | - |
| cis-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Bromochloromethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Chloroform (THM) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 2,2-dichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2-dichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,1,1-trichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,1-dichloropropene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Carbon tetrachloride | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Dibromomethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2-dichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 2-nitropropane | mg/kg | 10 | <10 | - | - | - | - |
| Bromodichloromethane (THM) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | <1 | - | - | - | - |
| cis-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| trans-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,1,2-trichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,3-dichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Dibromochloromethane (THM) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 2-hexanone (MBK) | mg/kg | 5 | <5 | - | - | - | - |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Chlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Bromoform (THM) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2,3-trichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | <1 | - | - | - | - |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Bromobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 2-chlorotoluene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 4-chlorotoluene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| tert-butylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| sec-butylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,3-dichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,4-dichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| p-isopropyltoluene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2-dichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| n-butylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | - |
| Total VOC* | mg/kg | 24 | <24 | - | - | - | - |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | <3.0 | - | - | - | - |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | - | - | - | - |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | - | - | - | - |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | <3.0 | - | - | - | - |
| MEK (2-butanone) | mg/kg | 10 | <10 | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | - | - | - |
| Chloromethane | mg/kg | 1 | - | - | - | - | - |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | - | - | - |
| Bromomethane | mg/kg | 1 | - | - | - | - | - |
| Chloroethane | mg/kg | 1 | - | - | - | - | - |
| Trichlorofluoromethane | mg/kg | 1 | - | - | - | - | - |
| Acetone (2-propanone) | mg/kg | 10 | - | - | - | - | - |
| Iodomethane | mg/kg | 5 | - | - | - | - | - |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| Acrylonitrile | mg/kg | 0.1 | - | - | - | - | - |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | - | - | - |
| Allyl chloride | mg/kg | 0.1 | - | - | - | - | - |
| Carbon disulfide | mg/kg | 0.5 | - | - | - | - | - |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| Vinyl acetate* | mg/kg | 10 | - | - | - | - | - |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| Bromochloromethane | mg/kg | 0.1 | - | - | - | - | - |
| Chloroform (THM) | mg/kg | 0.1 | - | - | - | - | - |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | - | - | - |
| Dibromomethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | - | - | - |
| 2-nitropropane | mg/kg | 10 | - | - | - | - | - |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | - | - | - |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | - | - | - |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | - | - | - |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | - | - | - |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | - | - | - |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | - |
| Chlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Bromoform (THM) | mg/kg | 0.1 | - | - | - | - | - |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | - | - | - |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | - | - | - |
| Bromobenzene | mg/kg | 0.1 | - | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | - | - | - |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | - | - | - |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| tert-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| sec-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| n-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Total VOC* | mg/kg | 24 | - | - | - | - | - |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | - | - | - |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | - |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | - |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | - | - | - |
| MEK (2-butanone) | mg/kg | 10 | - | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | <1 | - | <1 |
| Chloromethane | mg/kg | 1 | - | - | <1 | - | <1 |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Bromomethane | mg/kg | 1 | - | - | <1 | - | <1 |
| Chloroethane | mg/kg | 1 | - | - | <1 | - | <1 |
| Trichlorofluoromethane | mg/kg | 1 | - | - | <1 | - | <1 |
| Acetone (2-propanone) | mg/kg | 10 | - | - | <10 | - | <10 |
| Iodomethane | mg/kg | 5 | - | - | <5 | - | <5 |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Acrylonitrile | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | <0.5 | - | <0.5 |
| Allyl chloride | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Carbon disulfide | mg/kg | 0.5 | - | - | <0.5 | - | <0.5 |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Vinyl acetate* | mg/kg | 10 | - | - | <10 | - | <10 |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Bromochloromethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Chloroform (THM) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Dibromomethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 2-nitropropane | mg/kg | 10 | - | - | <10 | - | <10 |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | <1 | - | <1 |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | <5 | - | <5 |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Chlorobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Bromoform (THM) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | <1 | - | <1 |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Bromobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| tert-butylbenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| sec-butylbenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| n-butylbenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | <0.1 | - | <0.1 |
| Total VOC* | mg/kg | 24 | - | - | <24 | - | <24 |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | <3.0 | - | <3.0 |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | <1.8 | - | <1.8 |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | <1.8 | - | <1.8 |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | <3.0 | - | <3.0 |
| MEK (2-butanone) | mg/kg | 10 | - | - | <10 | - | <10 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | - | - | <1 |
| Chloromethane | mg/kg | 1 | - | - | - | - | <1 |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromomethane | mg/kg | 1 | - | - | - | - | <1 |
| Chloroethane | mg/kg | 1 | - | - | - | - | <1 |
| Trichlorofluoromethane | mg/kg | 1 | - | - | - | - | <1 |
| Acetone (2-propanone) | mg/kg | 10 | - | - | - | - | <10 |
| Iodomethane | mg/kg | 5 | - | - | - | - | <5 |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Acrylonitrile | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | - | - | <0.5 |
| Allyl chloride | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Carbon disulfide | mg/kg | 0.5 | - | - | - | - | <0.5 |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Vinyl acetate* | mg/kg | 10 | - | - | - | - | <10 |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromochloromethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Chloroform (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Dibromomethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2-nitropropane | mg/kg | 10 | - | - | - | - | <10 |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | - | - | <1 |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | - | - | <5 |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Chlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromoform (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | - | - | <1 |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| tert-butylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| sec-butylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| n-butylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Total VOC* | mg/kg | 24 | - | - | - | - | <24 |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | - | - | <3.0 |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | <1.8 |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | <1.8 |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | - | - | <3.0 |
| MEK (2-butanone) | mg/kg | 10 | - | - | - | - | <10 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP120-0.3-0.4 SOIL - 10/12/2024 SE275864.050 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | <1 | - | - | - | <1 |
| Chloromethane | mg/kg | 1 | <1 | - | - | - | <1 |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Bromomethane | mg/kg | 1 | <1 | - | - | - | <1 |
| Chloroethane | mg/kg | 1 | <1 | - | - | - | <1 |
| Trichlorofluoromethane | mg/kg | 1 | <1 | - | - | - | <1 |
| Acetone (2-propanone) | mg/kg | 10 | <10 | - | - | - | <10 |
| Iodomethane | mg/kg | 5 | <5 | - | - | - | <5 |
| 1,1-dichloroethene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Acrylonitrile | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | <0.5 | - | - | - | <0.5 |
| Allyl chloride | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Carbon disulfide | mg/kg | 0.5 | <0.5 | - | - | - | <0.5 |
| trans-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,1-dichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Vinyl acetate* | mg/kg | 10 | <10 | - | - | - | <10 |
| cis-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Bromochloromethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Chloroform (THM) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 2,2-dichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2-dichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,1,1-trichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,1-dichloropropene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Carbon tetrachloride | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Dibromomethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2-dichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 2-nitropropane | mg/kg | 10 | <10 | - | - | - | <10 |
| Bromodichloromethane (THM) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | <1 | - | - | - | <1 |
| cis-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| trans-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,1,2-trichloroethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,3-dichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Dibromochloromethane (THM) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 2-hexanone (MBK) | mg/kg | 5 | <5 | - | - | - | <5 |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Chlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Bromoform (THM) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2,3-trichloropropane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | <1 | - | - | - | <1 |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Bromobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |

VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP120-0.3-0.4 SOIL - 10/12/2024 SE275864.050 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 2-chlorotoluene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 4-chlorotoluene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| tert-butylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| sec-butylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,3-dichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,4-dichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| p-isopropyltoluene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2-dichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| n-butylbenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | <0.1 | - | - | - | <0.1 |
| Total VOC* | mg/kg | 24 | <24 | - | - | - | <24 |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | <3.0 | - | - | - | <3.0 |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | - | - | - | <1.8 |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | - | - | - | <1.8 |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | <3.0 | - | - | - | <3.0 |
| MEK (2-butanone) | mg/kg | 10 | <10 | - | - | - | <10 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | - | - | - |
| Chloromethane | mg/kg | 1 | - | - | - | - | - |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | - | - | - |
| Bromomethane | mg/kg | 1 | - | - | - | - | - |
| Chloroethane | mg/kg | 1 | - | - | - | - | - |
| Trichlorofluoromethane | mg/kg | 1 | - | - | - | - | - |
| Acetone (2-propanone) | mg/kg | 10 | - | - | - | - | - |
| Iodomethane | mg/kg | 5 | - | - | - | - | - |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| Acrylonitrile | mg/kg | 0.1 | - | - | - | - | - |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | - | - | - |
| Allyl chloride | mg/kg | 0.1 | - | - | - | - | - |
| Carbon disulfide | mg/kg | 0.5 | - | - | - | - | - |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| Vinyl acetate* | mg/kg | 10 | - | - | - | - | - |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| Bromochloromethane | mg/kg | 0.1 | - | - | - | - | - |
| Chloroform (THM) | mg/kg | 0.1 | - | - | - | - | - |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | - | - | - |
| Dibromomethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | - | - | - |
| 2-nitropropane | mg/kg | 10 | - | - | - | - | - |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | - | - | - |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | - | - | - |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | - | - | - |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | - | - | - |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | - | - | - |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | - |
| Chlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Bromoform (THM) | mg/kg | 0.1 | - | - | - | - | - |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | - | - | - |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | - | - | - |
| Bromobenzene | mg/kg | 0.1 | - | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | - | - | - |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | - | - | - |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| tert-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| sec-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| n-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Total VOC* | mg/kg | 24 | - | - | - | - | - |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | - | - | - |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | - |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | - |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | - | - | - |
| MEK (2-butanone) | mg/kg | 10 | - | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | TP102-0.1-0.5 SOIL - 9/12/2024 SE275864.066 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | - | - | <1 |
| Chloromethane | mg/kg | 1 | - | - | - | - | <1 |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromomethane | mg/kg | 1 | - | - | - | - | <1 |
| Chloroethane | mg/kg | 1 | - | - | - | - | <1 |
| Trichlorofluoromethane | mg/kg | 1 | - | - | - | - | <1 |
| Acetone (2-propanone) | mg/kg | 10 | - | - | - | - | <10 |
| Iodomethane | mg/kg | 5 | - | - | - | - | <5 |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Acrylonitrile | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | - | - | <0.5 |
| Allyl chloride | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Carbon disulfide | mg/kg | 0.5 | - | - | - | - | <0.5 |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Vinyl acetate* | mg/kg | 10 | - | - | - | - | <10 |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromochloromethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Chloroform (THM) | mg/kg | 0.1 | - | - | - | - | **0.1** |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Dibromomethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2-nitropropane | mg/kg | 10 | - | - | - | - | <10 |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | - | - | <1 |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | - | - | <5 |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Chlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromoform (THM) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | - | - | <1 |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Bromobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | TP102-0.1-0.5 SOIL - 9/12/2024 SE275864.066 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| tert-butylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| sec-butylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| n-butylbenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | <0.1 |
| Total VOC* | mg/kg | 24 | - | - | - | - | <24 |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | - | - | <3.0 |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | <1.8 |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | <1.8 |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | - | - | <3.0 |
| MEK (2-butanone) | mg/kg | 10 | - | - | - | - | <10 |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 | Trip Spike SOIL - 5/12/2024 SE275864.075 | Trip Blank SOIL - 5/12/2024 SE275864.076 | Trip Spike SOIL - 5/12/2024 SE275864.077 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | [93%] | <0.1 | [93%] |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | [83%] | <0.1 | [102%] |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | [84%] | <0.1 | [101%] |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | [84%] | <0.2 | [102%] |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | [82%] | <0.1 | [102%] |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | - | <0.3 | - |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | - | <0.6 | - |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | - | - | - |
| Chloromethane | mg/kg | 1 | - | - | - | - | - |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | - | - | - |
| Bromomethane | mg/kg | 1 | - | - | - | - | - |
| Chloroethane | mg/kg | 1 | - | - | - | - | - |
| Trichlorofluoromethane | mg/kg | 1 | - | - | - | - | - |
| Acetone (2-propanone) | mg/kg | 10 | - | - | - | - | - |
| Iodomethane | mg/kg | 5 | - | - | - | - | - |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| Acrylonitrile | mg/kg | 0.1 | - | - | - | - | - |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | - | - | - |
| Allyl chloride | mg/kg | 0.1 | - | - | - | - | - |
| Carbon disulfide | mg/kg | 0.5 | - | - | - | - | - |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| Vinyl acetate* | mg/kg | 10 | - | - | - | - | - |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | - | - | - |
| Bromochloromethane | mg/kg | 0.1 | - | - | - | - | - |
| Chloroform (THM) | mg/kg | 0.1 | - | - | - | - | - |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | - | - | - |
| Dibromomethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | - | - | - |
| 2-nitropropane | mg/kg | 10 | - | - | - | - | - |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | - | - | - |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | - | - | - |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | - | - | - |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | - | - | - |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | - | - | - |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | - |
| Chlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Bromoform (THM) | mg/kg | 0.1 | - | - | - | - | - |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | - | - | - |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | - | - | - |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | - | - | - |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | - | - | - |
| Bromobenzene | mg/kg | 0.1 | - | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 | Trip Spike SOIL - 5/12/2024 SE275864.075 | Trip Blank SOIL - 5/12/2024 SE275864.076 | Trip Spike SOIL - 5/12/2024 SE275864.077 |
|---|---|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | - | - | - |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | - | - | - |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| tert-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| sec-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| n-butylbenzene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | - | - | - |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | - | - | - |
| Total VOC* | mg/kg | 24 | - | - | - | - | - |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | - | - | - |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | - |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - | - | - |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | - | - | - |
| MEK (2-butanone) | mg/kg | 10 | - | - | - | - | - |

## VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | Trip Blank SOIL - 5/12/2024 SE275864.078 | Trip Spike SOIL - 5/12/2024 SE275864.079 | Trip Blank SOIL - 5/12/2024 SE275864.080 |
|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | [102%] | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | [106%] | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | [106%] | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | [106%] | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | [107%] | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | - | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | - | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | - | - | - |
| Chloromethane | mg/kg | 1 | - | - | - |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | - | - | - |
| Bromomethane | mg/kg | 1 | - | - | - |
| Chloroethane | mg/kg | 1 | - | - | - |
| Trichlorofluoromethane | mg/kg | 1 | - | - | - |
| Acetone (2-propanone) | mg/kg | 10 | - | - | - |
| Iodomethane | mg/kg | 5 | - | - | - |
| 1,1-dichloroethene | mg/kg | 0.1 | - | - | - |
| Acrylonitrile | mg/kg | 0.1 | - | - | - |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | - | - | - |
| Allyl chloride | mg/kg | 0.1 | - | - | - |
| Carbon disulfide | mg/kg | 0.5 | - | - | - |
| trans-1,2-dichloroethene | mg/kg | 0.1 | - | - | - |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | - | - | - |
| 1,1-dichloroethane | mg/kg | 0.1 | - | - | - |
| Vinyl acetate* | mg/kg | 10 | - | - | - |
| cis-1,2-dichloroethene | mg/kg | 0.1 | - | - | - |
| Bromochloromethane | mg/kg | 0.1 | - | - | - |
| Chloroform (THM) | mg/kg | 0.1 | - | - | - |
| 2,2-dichloropropane | mg/kg | 0.1 | - | - | - |
| 1,2-dichloroethane | mg/kg | 0.1 | - | - | - |
| 1,1,1-trichloroethane | mg/kg | 0.1 | - | - | - |
| 1,1-dichloropropene | mg/kg | 0.1 | - | - | - |
| Carbon tetrachloride | mg/kg | 0.1 | - | - | - |
| Dibromomethane | mg/kg | 0.1 | - | - | - |
| 1,2-dichloropropane | mg/kg | 0.1 | - | - | - |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | - | - | - |
| 2-nitropropane | mg/kg | 10 | - | - | - |
| Bromodichloromethane (THM) | mg/kg | 0.1 | - | - | - |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | - | - | - |
| cis-1,3-dichloropropene | mg/kg | 0.1 | - | - | - |
| trans-1,3-dichloropropene | mg/kg | 0.1 | - | - | - |
| 1,1,2-trichloroethane | mg/kg | 0.1 | - | - | - |
| 1,3-dichloropropane | mg/kg | 0.1 | - | - | - |
| Dibromochloromethane (THM) | mg/kg | 0.1 | - | - | - |
| 2-hexanone (MBK) | mg/kg | 5 | - | - | - |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | - | - | - |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | - | - | - |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | - | - | - |
| Chlorobenzene | mg/kg | 0.1 | - | - | - |
| Bromoform (THM) | mg/kg | 0.1 | - | - | - |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | - | - | - |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | - | - | - |
| 1,2,3-trichloropropane | mg/kg | 0.1 | - | - | - |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | - | - | - |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | - | - | - |
| Bromobenzene | mg/kg | 0.1 | - | - | - |

VOC's in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | Trip Blank SOIL - 5/12/2024 SE275864.078 | Trip Spike SOIL - 5/12/2024 SE275864.079 | Trip Blank SOIL - 5/12/2024 SE275864.080 |
|---|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | - | - | - |
| 2-chlorotoluene | mg/kg | 0.1 | - | - | - |
| 4-chlorotoluene | mg/kg | 0.1 | - | - | - |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | - | - | - |
| tert-butylbenzene | mg/kg | 0.1 | - | - | - |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | - | - | - |
| sec-butylbenzene | mg/kg | 0.1 | - | - | - |
| 1,3-dichlorobenzene | mg/kg | 0.1 | - | - | - |
| 1,4-dichlorobenzene | mg/kg | 0.1 | - | - | - |
| p-isopropyltoluene | mg/kg | 0.1 | - | - | - |
| 1,2-dichlorobenzene | mg/kg | 0.1 | - | - | - |
| n-butylbenzene | mg/kg | 0.1 | - | - | - |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | - | - | - |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | - | - | - |
| Hexachlorobutadiene | mg/kg | 0.1 | - | - | - |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | - | - | - |
| Total VOC* | mg/kg | 24 | - | - | - |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | - | - | - |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | - | - | - |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | - | - | - |
| MEK (2-butanone) | mg/kg | 10 | - | - | - |

## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | Trip Blank SOIL - 5/12/2024 SE275864.076 | Trip Blank SOIL - 5/12/2024 SE275864.078 | Trip Blank SOIL - 5/12/2024 SE275864.080 |
|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | **86** | **57** | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | **67** | **53** | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | **130** | **92** | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | **150** | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | **56** | <45 | **74** | <45 | **45** |
| TRH C29-C36 | mg/kg | 45 | **51** | <45 | **49** | <45 | **57** |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | **91** | <90 | **110** | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | **120** | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| PARAMETER | UOM | LOR | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | **130** | <45 | **46** | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | **130** | <45 | **97** | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | **200** | <90 | **100** | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | **140** | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | **260** | <110 | **140** | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | **350** | <210 | <210 | <210 |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| PARAMETER | UOM | LOR | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| PARAMETER | UOM | LOR | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | **29** | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | **100** | <45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | **170** | <45 | <45 | <45 | **96** |
| TRH C37-C40 | mg/kg | 100 | **110** | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | **37** | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | **37** | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | **190** | <90 | <90 | <90 | **98** |
| TRH >C34-C40 (F4) | mg/kg | 120 | **190** | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | **300** | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | **410** | <210 | <210 | <210 | <210 |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | **78** | <45 | **49** | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| PARAMETER | UOM | LOR | Trip Blank SOIL - 5/12/2024 SE275864.076 | Trip Blank SOIL - 5/12/2024 SE275864.078 | Trip Blank SOIL - 5/12/2024 SE275864.080 |
|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | 1.3 | 0.3 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | 1.8 | 0.6 | 0.2 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | 1.9 | 0.7 | 0.2 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | 1.0 | 0.4 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | 0.9 | 0.4 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.7 | 0.3 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | 0.7 | 0.3 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | 0.9 | 0.4 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.5 | 0.3 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | 0.5 | 0.3 | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 1.4 | 0.6 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 1.4 | 0.7 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 1.4 | 0.6 | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | 11 | 3.9 | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | 11 | 3.9 | <0.8 | <0.8 | <0.8 |

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | 0.3 | <0.1 | 0.1 | 0.2 | 0.3 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | 0.6 | <0.1 | 0.3 | 0.5 | 0.5 |
| Pyrene | mg/kg | 0.1 | 0.6 | <0.1 | 0.4 | 0.5 | 0.5 |
| Benzo(a)anthracene | mg/kg | 0.1 | 0.3 | <0.1 | 0.2 | 0.3 | 0.2 |
| Chrysene | mg/kg | 0.1 | 0.3 | <0.1 | 0.2 | 0.3 | 0.2 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.3 | <0.1 | 0.2 | 0.2 | 0.2 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | 0.3 | <0.1 | 0.2 | 0.3 | 0.2 |
| Benzo(a)pyrene | mg/kg | 0.1 | 0.4 | <0.1 | 0.2 | 0.3 | 0.2 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.2 | <0.1 | 0.1 | 0.2 | 0.2 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | 0.2 | <0.1 | 0.1 | 0.2 | 0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 0.5 | <0.2 | 0.3 | 0.4 | 0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 0.6 | <0.3 | 0.4 | 0.5 | 0.4 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 0.5 | <0.2 | 0.4 | 0.5 | 0.4 |
| Total PAH (18) | mg/kg | 0.8 | 3.6 | <0.8 | 2.1 | 3.1 | 2.5 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | 3.6 | <0.8 | 2.1 | 3.1 | 2.5 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | **0.1** | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | **0.1** | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | **0.1** | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | <0.2 | **0.2** | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | **0.8** | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | **0.8** | <0.8 | <0.8 | <0.8 |

| PARAMETER | UOM | LOR | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | **0.1** | **0.1** | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | **0.1** | **0.1** | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.2** |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.3** |
| Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.3** |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.1** |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.1** |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.1** |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.1** |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.1** |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | **0.1** |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | **0.2** |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | **1.4** |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | **1.4** |

| PARAMETER | UOM | LOR | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | **0.1** | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | **0.5** | <0.1 | <0.1 | **0.2** | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | **0.9** | **0.1** | <0.1 | **0.4** | <0.1 |
| Pyrene | mg/kg | 0.1 | **0.8** | **0.1** | <0.1 | **0.4** | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | **0.3** | <0.1 | <0.1 | **0.1** | <0.1 |
| Chrysene | mg/kg | 0.1 | **0.3** | <0.1 | <0.1 | **0.1** | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | **0.3** | <0.1 | <0.1 | **0.1** | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | **0.2** | <0.1 | <0.1 | **0.1** | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | **0.4** | <0.1 | <0.1 | **0.2** | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | **0.3** | <0.1 | <0.1 | **0.2** | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | **0.3** | <0.1 | <0.1 | **0.2** | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | **0.5** | <0.2 | <0.2 | **0.2** | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | **0.6** | <0.3 | <0.3 | **0.3** | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | **0.6** | <0.2 | <0.2 | **0.3** | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | **4.4** | <0.8 | <0.8 | **2.1** | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | **4.4** | <0.8 | <0.8 | **2.1** | <0.8 |

## OC Pesticides in Soil [AN420] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | **0.2** | **0.1** | <0.1 | <0.1 | **0.1** |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | **0.2** | **0.1** | <0.1 | <0.1 | **0.1** |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | **0.2** | **0.1** | <0.1 | <0.1 | **0.1** |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## OC Pesticides in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## OC Pesticides in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## OC Pesticides in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## OC Pesticides in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## OC Pesticides in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## PCBs in Soil [AN420] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| PARAMETER | UOM | LOR | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| PARAMETER | UOM | LOR | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| PARAMETER | UOM | LOR | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## PCBs in Soil [AN420] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| PARAMETER | UOM | LOR | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 7 | 5 | 2 | 13 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 21 | 12 | 12 | 20 | 11 |
| Copper, Cu | mg/kg | 0.5 | 30 | 25 | 26 | 12 | 41 |
| Lead, Pb | mg/kg | 1 | 130 | 86 | 15 | 18 | 6 |
| Nickel, Ni | mg/kg | 0.5 | 18 | 13 | 8.9 | 5.7 | 63 |
| Zinc, Zn | mg/kg | 2 | 160 | 130 | 35 | 20 | 43 |
| Iron, Fe | mg/kg | 50 | 19000 | - | - | - | - |

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP114-2.1-2.2 SOIL - 9/12/2024 SE275864.020 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 5 | 9 | 5 | 3 | 6 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 7.8 | 19 | 7.6 | 5.2 | 12 |
| Copper, Cu | mg/kg | 0.5 | 31 | 15 | 33 | 27 | 20 |
| Lead, Pb | mg/kg | 1 | 80 | 21 | 42 | 80 | 14 |
| Nickel, Ni | mg/kg | 0.5 | 12 | 5.4 | 9.2 | 3.9 | 4.5 |
| Zinc, Zn | mg/kg | 2 | 220 | 32 | 61 | 91 | 28 |
| Iron, Fe | mg/kg | 50 | - | - | - | 8000 | - |

| PARAMETER | UOM | LOR | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 6 | 2 | 4 | 5 | 180 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 1.5 |
| Chromium, Cr | mg/kg | 0.5 | 13 | 1.9 | 6.1 | 7.6 | 9.2 |
| Copper, Cu | mg/kg | 0.5 | 12 | 18 | 15 | 29 | 33 |
| Lead, Pb | mg/kg | 1 | 26 | 9 | 24 | 11 | 45 |
| Nickel, Ni | mg/kg | 0.5 | 5.3 | 1.7 | 4.0 | 26 | 29 |
| Zinc, Zn | mg/kg | 2 | 38 | 23 | 230 | 52 | 89 |
| Iron, Fe | mg/kg | 50 | - | - | - | - | - |

| PARAMETER | UOM | LOR | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 1 | 1 | 6 | 97 | 8 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | 0.8 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 6.4 | 5.8 | 12 | 11 | 15 |
| Copper, Cu | mg/kg | 0.5 | 51 | 55 | 14 | 15 | 16 |
| Lead, Pb | mg/kg | 1 | 2 | 2 | 26 | 28 | 15 |
| Nickel, Ni | mg/kg | 0.5 | 37 | 74 | 7.7 | 12 | 3.5 |
| Zinc, Zn | mg/kg | 2 | 27 | 37 | 59 | 45 | 23 |
| Iron, Fe | mg/kg | 50 | - | - | - | - | - |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 17/12/2024

(continued)

| PARAMETER | UOM | LOR | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP122-0.8-1.0 SOIL - 10/12/2024 SE275864.039 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 3 | 6 | 1 | 13 | 5 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 8.9 | 13 | 7.7 | 16 | 11 |
| Copper, Cu | mg/kg | 0.5 | 57 | 28 | 50 | 18 | 34 |
| Lead, Pb | mg/kg | 1 | 18 | 13 | 3 | 22 | 9 |
| Nickel, Ni | mg/kg | 0.5 | 120 | 13 | 120 | 5.2 | 53 |
| Zinc, Zn | mg/kg | 2 | 73 | 59 | 49 | 37 | 42 |
| Iron, Fe | mg/kg | 50 | - | - | - | - | - |

| PARAMETER | UOM | LOR | TP126-0.4-0.6 SOIL - 10/12/2024 SE275864.044 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP125-0.4-0.8 SOIL - 10/12/2024 SE275864.046 | TP121-0.8-1.0 SOIL - 10/12/2024 SE275864.049 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 7 | 1 | 6 | 7 | 6 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 14 | 7.2 | 14 | 13 | 14 |
| Copper, Cu | mg/kg | 0.5 | 46 | 42 | 22 | 21 | 16 |
| Lead, Pb | mg/kg | 1 | 13 | 2 | 17 | 17 | 26 |
| Nickel, Ni | mg/kg | 0.5 | 9.3 | 110 | 16 | 3.0 | 9.0 |
| Zinc, Zn | mg/kg | 2 | 71 | 43 | 34 | 26 | 51 |
| Iron, Fe | mg/kg | 50 | - | - | - | - | - |

| PARAMETER | UOM | LOR | TP129-0.5-1.0 SOIL - 11/12/2024 SE275864.052 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP128-0.4-1.0 SOIL - 11/12/2024 SE275864.054 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 6 | 4 | 4 | 2 | 6 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 7.3 | 7.7 | 7.1 | 7.0 | 10 |
| Copper, Cu | mg/kg | 0.5 | 15 | 35 | 20 | 53 | 18 |
| Lead, Pb | mg/kg | 1 | 12 | 19 | 10 | 2 | 11 |
| Nickel, Ni | mg/kg | 0.5 | 2.2 | 24 | 4.7 | 110 | 3.1 |
| Zinc, Zn | mg/kg | 2 | 20 | 87 | 34 | 48 | 21 |
| Iron, Fe | mg/kg | 50 | - | - | - | - | - |

| PARAMETER | UOM | LOR | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP131-0.5-1.1 SOIL - 11/12/2024 SE275864.058 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP127-0.9-1.2 SOIL - 11/12/2024 SE275864.061 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 3 | 5 | 2 | 8 | 10 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.3 |
| Chromium, Cr | mg/kg | 0.5 | 8.2 | 9.4 | 6.8 | 15 | 16 |
| Copper, Cu | mg/kg | 0.5 | 17 | 41 | 43 | 12 | 37 |
| Lead, Pb | mg/kg | 1 | 9 | 51 | 16 | 14 | 770 |
| Nickel, Ni | mg/kg | 0.5 | 5.3 | 62 | 78 | 3.0 | 11 |
| Zinc, Zn | mg/kg | 2 | 43 | 80 | 47 | 17 | 240 |
| Iron, Fe | mg/kg | 50 | - | - | - | - | - |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 17/12/2024

(continued)

| PARAMETER | UOM | LOR | TP132-0.5-0.6<br>SOIL<br>-<br>11/12/2024<br>SE275864.063 | TP108-0.2-0.5<br>SOIL<br>-<br>11/12/2024<br>SE275864.064 | TP108-0.6-1.0<br>SOIL<br>-<br>11/12/2024<br>SE275864.065 | QA03<br>SOIL<br>-<br>9/12/2024<br>SE275864.067 | QA04<br>SOIL<br>-<br>10/12/2024<br>SE275864.068 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 4 | 31 | 7 | 5 | 9 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 13 | 13 | 17 | 9.5 | 14 |
| Copper, Cu | mg/kg | 0.5 | 18 | 21 | 19 | 15 | 16 |
| Lead, Pb | mg/kg | 1 | 15 | 26 | 14 | 33 | 26 |
| Nickel, Ni | mg/kg | 0.5 | 3.6 | 17 | 7.0 | 5.2 | 7.4 |
| Zinc, Zn | mg/kg | 2 | 31 | 50 | 42 | 55 | 30 |
| Iron, Fe | mg/kg | 50 | 38000 | - | - | - | - |

| PARAMETER | UOM | LOR | QA06<br>SOIL<br>-<br>11/12/2024<br>SE275864.069 |
|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 7.7 |
| Copper, Cu | mg/kg | 0.5 | 18 |
| Lead, Pb | mg/kg | 1 | 9 |
| Nickel, Ni | mg/kg | 0.5 | 4.6 |
| Zinc, Zn | mg/kg | 2 | 39 |
| Iron, Fe | mg/kg | 50 | - |

## Mercury in Soil [AN312] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | **0.20** | **0.17** | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP114-2.1-2.2 SOIL - 9/12/2024 SE275864.020 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | **0.15** | <0.05 | **0.07** | **0.17** | <0.05 |

| PARAMETER | UOM | LOR | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | **0.09** | **0.13** |

| PARAMETER | UOM | LOR | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | **0.06** | <0.05 |

| PARAMETER | UOM | LOR | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP122-0.8-1.0 SOIL - 10/12/2024 SE275864.039 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | TP126-0.4-0.6 SOIL - 10/12/2024 SE275864.044 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP125-0.4-0.8 SOIL - 10/12/2024 SE275864.046 | TP121-0.8-1.0 SOIL - 10/12/2024 SE275864.049 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.24** |

| PARAMETER | UOM | LOR | TP129-0.5-1.0 SOIL - 11/12/2024 SE275864.052 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP128-0.4-1.0 SOIL - 11/12/2024 SE275864.054 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

## Mercury in Soil [AN312] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP131-0.5-1.1 SOIL - 11/12/2024 SE275864.058 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP127-0.9-1.2 SOIL - 11/12/2024 SE275864.061 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.17** |

| PARAMETER | UOM | LOR | TP132-0.5-0.6 SOIL - 11/12/2024 SE275864.063 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | **0.07** | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | QA06 SOIL - 11/12/2024 SE275864.069 |
|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 |

## Moisture Content [AN002] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 10.0 | 23.7 | 17.8 | 17.9 | 20.2 |

| PARAMETER | UOM | LOR | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP113-1.0-1.1 SOIL - 9/12/2024 SE275864.013 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP114-2.1-2.2 SOIL - 9/12/2024 SE275864.020 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 7.5 | 16.5 | 16.3 | 22.3 | 20.9 |

| PARAMETER | UOM | LOR | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.6--0.7 SOIL - 9/12/2024 SE275864.023 | TP119-0.8-0.9 SOIL - 9/12/2024 SE275864.025 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 20.4 | 13.8 | 18.2 | 16.4 | 11.3 |

| PARAMETER | UOM | LOR | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP107-1.1-1.2 SOIL - 10/12/2024 SE275864.037 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 12.7 | 4.2 | 24.3 | 12.8 | 21.4 |

| PARAMETER | UOM | LOR | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP122-0.8-1.0 SOIL - 10/12/2024 SE275864.039 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 7.5 | 16.5 | 4.7 | 24.0 | 13.5 |

| PARAMETER | UOM | LOR | TP126-0.4-0.6 SOIL - 10/12/2024 SE275864.044 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 | TP125-0.4-0.8 SOIL - 10/12/2024 SE275864.046 | TP121-0.8-1.0 SOIL - 10/12/2024 SE275864.049 | TP120-0.3-0.4 SOIL - 10/12/2024 SE275864.050 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 17.6 | 19.6 | 20.0 | 21.8 | 18.6 |

| PARAMETER | UOM | LOR | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 | TP129-0.5-1.0 SOIL - 11/12/2024 SE275864.052 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 | TP128-0.4-1.0 SOIL - 11/12/2024 SE275864.054 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 12.4 | 16.1 | 7.6 | 21.6 | 6.1 |

## Moisture Content [AN002] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP130-0.6-1.0 SOIL - 11/12/2024 SE275864.056 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP131-0.5-1.1 SOIL - 11/12/2024 SE275864.058 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP127-0.9-1.2 SOIL - 11/12/2024 SE275864.061 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 20.6 | 17.8 | 11.8 | 15.0 | 23.2 |

| PARAMETER | UOM | LOR | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 | TP132-0.5-0.6 SOIL - 11/12/2024 SE275864.063 | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 | TP102-0.1-0.5 SOIL - 9/12/2024 SE275864.066 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 27.0 | 17.7 | 14.9 | 20.2 | 19.9 |

| PARAMETER | UOM | LOR | QA03 SOIL - 9/12/2024 SE275864.067 | QA04 SOIL - 10/12/2024 SE275864.068 | QA06 SOIL - 11/12/2024 SE275864.069 | Trip Blank SOIL - 5/12/2024 SE275864.076 | Trip Blank SOIL - 5/12/2024 SE275864.078 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 11.7 | 27.2 | 24.6 | <1.0 | <1.0 |

| PARAMETER | UOM | LOR | Trip Blank SOIL - 5/12/2024 SE275864.080 |
|---|---|---|---|
| % Moisture | %w/w | 1 | <1.0 |

## Fibre Identification in soil [AS4964/AN602] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.05-0.1 SOIL - 9/12/2024 SE275864.001 | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.05-0.1 SOIL - 9/12/2024 SE275864.004 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No | No | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

| PARAMETER | UOM | LOR | TP110-0.1-0.8 SOIL - 9/12/2024 SE275864.009 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 | TP113-0.3-0.4 SOIL - 9/12/2024 SE275864.011 | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | IS | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Asbestos Detected | No unit | - | IS | No | Yes | No | No |
| Estimated Fibres* | %w/w | 0.01 | IS | <0.01 | **>0.01** | <0.01 | <0.01 |

| PARAMETER | UOM | LOR | TP115-0.8-0.9 SOIL - 9/12/2024 SE275864.015 | TP114-0.5-0.6 SOIL - 9/12/2024 SE275864.018 | TP114-1.0-1.1 SOIL - 9/12/2024 SE275864.019 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.1-0.2 SOIL - 9/12/2024 SE275864.022 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No | No | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

| PARAMETER | UOM | LOR | TP119-0.2-0.3 SOIL - 9/12/2024 SE275864.024 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No | No | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

| PARAMETER | UOM | LOR | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP103-0.6-0.7 SOIL - 10/12/2024 SE275864.032 | TP105-0.1-0.2 SOIL - 10/12/2024 SE275864.033 | TP105-0.4-0.5 SOIL - 10/12/2024 SE275864.034 | TP107-0.1-0.2 SOIL - 10/12/2024 SE275864.035 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No | No | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

| PARAMETER | UOM | LOR | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | IS |
| Asbestos Detected | No unit | - | No | No | No | No | IS |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | IS |

| PARAMETER | UOM | LOR | TP121-0.1-0.3 SOIL - 10/12/2024 SE275864.047 | TP121-0.3-0.5 SOIL - 10/12/2024 SE275864.048 | TP120-0.3-0.4 SOIL - 10/12/2024 SE275864.050 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 19/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No | No | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

## Fibre Identification in soil [AS4964/AN602] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP127-0.4-0.9 SOIL - 11/12/2024 SE275864.060 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 19/12/2024 00:00 | 19/12/2024 00:00 | 19/12/2024 00:00 | 19/12/2024 00:00 | 19/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No | No | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

| PARAMETER | UOM | LOR | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP102-0.1-0.5 SOIL - 9/12/2024 SE275864.066 |
|---|---|---|---|---|
| Date Analysed* | No unit | - | 19/12/2024 00:00 | 19/12/2024 00:00 |
| Asbestos Detected | No unit | - | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 17/12/2024

| PARAMETER | UOM | LOR | TP111-0.05-0.1 SOIL - 9/12/2024 SE275864.001 | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP112-0.05-0.1 SOIL - 9/12/2024 SE275864.004 | TP112-0.3-0.4 SOIL - 9/12/2024 SE275864.005 | TP110-0.1-0.2 SOIL - 9/12/2024 SE275864.007 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **633** | **637** | **631** | **619** | **611** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | **0.0107** | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | **0.002** | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | **0.002** | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD | NAD | Chrysotile | NAD |

| PARAMETER | UOM | LOR | TP110-0.1-0.8 SOIL - 9/12/2024 SE275864.009 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864.010 | TP113-0.3-0.4 SOIL - 9/12/2024 SE275864.011 | TP113-0.6-0.7 SOIL - 9/12/2024 SE275864.012 | TP115-0.3-0.4 SOIL - 9/12/2024 SE275864.014 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | IS | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Total Sample Weight* | g | 1 | IS | **565** | **663** | **476** | **383** |
| Bonded ACM in >7mm Sample* | g | 0.001 | IS | <0.001 | **0.403** | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | IS | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | IS | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | IS | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | IS | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | IS | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | IS | <0.001 | <0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | IS | NAD | Chrysotile | NAD | NAD |

| PARAMETER | UOM | LOR | TP115-0.8-0.9 SOIL - 9/12/2024 SE275864.015 | TP114-0.5-0.6 SOIL - 9/12/2024 SE275864.018 | TP114-1.0-1.1 SOIL - 9/12/2024 SE275864.019 | TP117-0.1-0.2 SOIL - 9/12/2024 SE275864.021 | TP116-0.1-0.2 SOIL - 9/12/2024 SE275864.022 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **534** | **644** | **618** | **614** | **643** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD | NAD | NAD | NAD |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP119-0.2-0.3 SOIL - 9/12/2024 SE275864.024 | TP109-0.2-0.3 SOIL - 9/12/2024 SE275864.027 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864.028 | TP106-0.1-0.5 SOIL - 10/12/2024 SE275864.029 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864.030 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **625** | **764** | **599** | **868** | **932** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD | NAD | NAD | NAD |

| PARAMETER | UOM | LOR | TP103-0.1-0.2 SOIL - 10/12/2024 SE275864.031 | TP103-0.6-0.7 SOIL - 10/12/2024 SE275864.032 | TP105-0.1-0.2 SOIL - 10/12/2024 SE275864.033 | TP105-0.4-0.5 SOIL - 10/12/2024 SE275864.034 | TP107-0.1-0.2 SOIL - 10/12/2024 SE275864.035 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **501** | **521** | **653** | **698** | **665** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | **0.0385** | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | **0.006** | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | **0.006** | <0.001 | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD | Chrysotile | NAD | NAD |

| PARAMETER | UOM | LOR | TP107-0.5-0.6 SOIL - 10/12/2024 SE275864.036 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864.038 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864.041 | TP126-0.1-0.4 SOIL - 10/12/2024 SE275864.043 | TP125-0.1-0.3 SOIL - 10/12/2024 SE275864.045 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | IS |
| Total Sample Weight* | g | 1 | **602** | **847** | **728** | **567** | IS |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | IS |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | IS |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | IS |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | IS |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | IS |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | IS |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | IS |
| Fibre Type* | No unit | - | NAD | NAD | NAD | NAD | IS |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 17/12/2024 (continued)

| PARAMETER | UOM | LOR | TP121-0.1-0.3 SOIL - 10/12/2024 SE275864.047 | TP121-0.3-0.5 SOIL - 10/12/2024 SE275864.048 | TP120-0.3-0.4 SOIL - 10/12/2024 SE275864.050 | TP129-0.1-0.5 SOIL - 11/12/2024 SE275864.051 | TP128-0.1-0.4 SOIL - 11/12/2024 SE275864.053 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 19/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **824** | **570** | **575** | **694** | **718** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD | NAD | NAD | NAD |

| PARAMETER | UOM | LOR | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864.055 | TP131-0.1-0.5 SOIL - 11/12/2024 SE275864.057 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864.059 | TP127-0.4-0.9 SOIL - 11/12/2024 SE275864.060 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864.062 |
|---|---|---|---|---|---|---|---|
| Date Analysed* | No unit | - | 19/12/2024 00:00 | 19/12/2024 00:00 | 19/12/2024 00:00 | 19/12/2024 00:00 | 19/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **871** | **788** | **960** | **712** | **558** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD | NAD | NAD | NAD |

| PARAMETER | UOM | LOR | TP108-0.2-0.5 SOIL - 11/12/2024 SE275864.064 | TP102-0.1-0.5 SOIL - 9/12/2024 SE275864.066 |
|---|---|---|---|---|
| Date Analysed* | No unit | - | 19/12/2024 00:00 | 19/12/2024 00:00 |
| Total Sample Weight* | g | 1 | **530** | **789** |
| Bonded ACM in >7mm Sample* | g | 0.001 | <0.001 | <0.001 |
| AF/FA in >2mm to <7mm Sample* | g | 0.00001 | <0.00001 | <0.00001 |
| AF/FA in <2mm Sample* | g | 0.00001 | <0.00001 | <0.00001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | NAD | NAD |

## Conductivity and TDS by Calculation - Soil [AN106] Tested: 18/12/2024

| PARAMETER | UOM | LOR | TP110-0.6-0.7<br>SOIL<br>-<br>9/12/2024<br>SE275864.008 | TP123-0.4-0.7<br>SOIL<br>-<br>10/12/2024<br>SE275864.042 | TP131-0.5-1.1<br>SOIL<br>-<br>11/12/2024<br>SE275864.058 | TP108-0.6-1.0<br>SOIL<br>-<br>11/12/2024<br>SE275864.065 |
|---|---|---|---|---|---|---|
| Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1 | 200 | 350 | 200 | 140 |

## pH in soil (1:5) [AN101] Tested: 18/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP110-0.6-0.7 SOIL - 9/12/2024 SE275864.008 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP123-0.4-0.7 SOIL - 10/12/2024 SE275864.042 | TP131-0.5-1.1 SOIL - 11/12/2024 SE275864.058 |
|---|---|---|---|---|---|---|---|
| pH (CaCl2)* | pH Units | 0.1 | **7.3** | **5.0** | **6.1** | **4.1** | **6.7** |

| PARAMETER | UOM | LOR | TP132-0.5-0.6 SOIL - 11/12/2024 SE275864.063 | TP108-0.6-1.0 SOIL - 11/12/2024 SE275864.065 |
|---|---|---|---|---|
| pH (CaCl2)* | pH Units | 0.1 | **4.0** | **4.3** |

## TOC in Soil [AN188] Tested: 19/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP132-0.5-0.6 SOIL - 11/12/2024 SE275864.063 |
|---|---|---|---|---|---|
| Total Organic Carbon | %w/w | 0.05 | **0.33** | **2.0** | **0.39** |
| Organic Matter (calc)* | %w/w | 0.1 | **0.6** | **3.4** | **0.7** |

## Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 19/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864.002 | TP114-0.1-0.2 SOIL - 9/12/2024 SE275864.017 | TP132-0.5-0.6 SOIL - 11/12/2024 SE275864.063 |
|---|---|---|---|---|---|
| Exchangeable Calcium, Ca | mg/kg | 2 | 5700 | 1300 | 290 |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | 29 | 6.5 | 1.5 |
| Exchangeable Calcium Percentage* | % | 0.1 | 94.4 | 82.6 | 16.4 |
| Exchangeable Potassium, K | mg/kg | 2 | 150 | 190 | 150 |
| Exchangeable Potassium, K | meq/100g | 0.01 | 0.38 | 0.49 | 0.39 |
| Exchangeable Potassium Percentage* | % | 0.1 | 1.3 | 6.3 | 4.3 |
| Exchangeable Magnesium, Mg | mg/kg | 2 | 91 | 100 | 730 |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | 0.75 | 0.83 | 6.0 |
| Exchangeable Magnesium Percentage* | % | 0.1 | 2.5 | 10.6 | 67.1 |
| Exchangeable Sodium, Na | mg/kg | 2 | 130 | 9 | 250 |
| Exchangeable Sodium, Na | meq/100g | 0.01 | 0.58 | 0.04 | 1.1 |
| Exchangeable Sodium Percentage* | % | 0.1 | 1.9 | 0.5 | 12.1 |
| Cation Exchange Capacity | meq/100g | 0.02 | 30 | 7.8 | 9.0 |

## Particle sizing of soils by sieving [AN005] Tested: 24/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5<br>SOIL<br>-<br>9/12/2024<br>SE275864.002 | TP114-0.1-0.2<br>SOIL<br>-<br>9/12/2024<br>SE275864.017 | TP132-0.5-0.6<br>SOIL<br>-<br>11/12/2024<br>SE275864.063 |
|---|---|---|---|---|---|
| Passing 75µm* | %w/w | 1 | **22** | **12** | **94** |
| Retained 75µm* | %w/w | 1 | **78** | **88** | **6** |

## Particle sizing of soils <75µm by hydrometer [AN005] Tested: 24/12/2024

| PARAMETER | UOM | LOR | TP111-0.4-0.5<br>SOIL<br>-<br>9/12/2024<br>SE275864.002 | TP114-0.1-0.2<br>SOIL<br>-<br>9/12/2024<br>SE275864.017 | TP132-0.5-0.6<br>SOIL<br>-<br>11/12/2024<br>SE275864.063 |
|---|---|---|---|---|---|
| Clay (<0.002mm)* | %w/w | 0.1 | 22 | 13 | 56 |

## VOCs in Water [AN433] Tested: 20/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Benzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Toluene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| m/p-xylene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| o-xylene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Total Xylenes | µg/L | 1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| Total BTEX | µg/L | 3 | <3 | <3 | <3 | <3 | <3 |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dichlorodifluoromethane (CFC-12) | µg/L | 5 | <5 | - | <5 | - | - |
| Chloromethane | µg/L | 5 | <5 | - | <5 | - | - |
| Vinyl chloride (Chloroethene) | µg/L | 0.3 | <0.3 | - | <0.3 | - | - |
| Bromomethane | µg/L | 10 | <10 | - | <10 | - | - |
| Chloroethane | µg/L | 5 | <5 | - | <5 | - | - |
| Trichlorofluoromethane | µg/L | 1 | <1 | - | <1 | - | - |
| Acetone (2-propanone) | µg/L | 10 | <10 | - | <10 | - | - |
| Iodomethane | µg/L | 5 | <5 | - | <5 | - | - |
| 1,1-dichloroethene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Acrylonitrile | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Dichloromethane (Methylene chloride) | µg/L | 5 | <5 | - | <5 | - | - |
| Allyl chloride | µg/L | 2 | <2 | - | <2 | - | - |
| Carbon disulfide | µg/L | 2 | <2 | - | <2 | - | - |
| trans-1,2-dichloroethene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| MtBE (Methyl-tert-butyl ether) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,1-dichloroethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Vinyl acetate* | µg/L | 10 | <10 | - | <10 | - | - |
| MEK (2-butanone) | µg/L | 10 | <10 | - | <10 | - | - |
| cis-1,2-dichloroethene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Bromochloromethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Chloroform (THM) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 2,2-dichloropropane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2-dichloroethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,1,1-trichloroethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,1-dichloropropene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Carbon tetrachloride | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Dibromomethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2-dichloropropane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 2-nitropropane | µg/L | 100 | <100 | - | <100 | - | - |
| Bromodichloromethane (THM) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| MIBK (4-methyl-2-pentanone) | µg/L | 5 | <5 | - | <5 | - | - |
| cis-1,3-dichloropropene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| trans-1,3-dichloropropene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,1,2-trichloroethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,3-dichloropropane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Dibromochloromethane (THM) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 2-hexanone (MBK) | µg/L | 5 | <5 | - | <5 | - | - |
| 1,2-dibromoethane (EDB) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,1,1,2-tetrachloroethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Chlorobenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Bromoform (THM) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Styrene (Vinyl benzene) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,1,2,2-tetrachloroethane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2,3-trichloropropane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| trans-1,4-dichloro-2-butene | µg/L | 1 | <1 | - | <1 | - | - |
| Isopropylbenzene (Cumene) | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |

## VOCs in Water [AN433] Tested: 20/12/2024 (continued)

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Bromobenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| n-propylbenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 2-chlorotoluene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 4-chlorotoluene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,3,5-trimethylbenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| tert-butylbenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2,4-trimethylbenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| sec-butylbenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,3-dichlorobenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,4-dichlorobenzene | µg/L | 0.3 | <0.3 | - | <0.3 | - | - |
| p-isopropyltoluene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2-dichlorobenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| n-butylbenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2-dibromo-3-chloropropane | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2,4-trichlorobenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Hexachlorobutadiene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| 1,2,3-trichlorobenzene | µg/L | 0.5 | <0.5 | - | <0.5 | - | - |
| Total VOC | µg/L | 10 | <10 | - | <10 | - | - |

## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 20/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | µg/L | 40 | <40 | <40 | <40 | <40 | <40 |
| Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRH C6-C10 | µg/L | 50 | <50 | <50 | <50 | <50 | <50 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | <50 | <50 | <50 |

## TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 19/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | µg/L | 50 | <50 | <50 | <50 | <50 | <50 |
| TRH C15-C28 | µg/L | 200 | <200 | <200 | <200 | <200 | <200 |
| TRH C29-C36 | µg/L | 200 | <200 | <200 | <200 | <200 | <200 |
| TRH C37-C40 | µg/L | 200 | <200 | <200 | <200 | <200 | <200 |
| TRH >C10-C16 | µg/L | 60 | **93** | **84** | **89** | **94** | **85** |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | **93** | **84** | **89** | **93** | **85** |
| TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | <500 | <500 | <500 |
| TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | <500 | <500 | <500 |
| TRH C10-C40 | µg/L | 320 | <320 | <320 | <320 | <320 | <320 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 19/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Naphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total PAH (18) | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |

## OC Pesticides in Water [AN420] Tested: 19/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Alpha BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Gamma Chlordane | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin ketone | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin aldehyde | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total OC | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Total OC | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |

## PCBs in Water [AN420] Tested: 19/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Arochlor 1221 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Arochlor 1232 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Arochlor 1242 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Arochlor 1248 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Arochlor 1254 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Arochlor 1260 | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Total Arochlors* | µg/L | 5 | <5 | <5 | <5 | <5 | <5 |

## Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 18/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Arsenic | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chromium | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Copper | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Lead | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Nickel | µg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | µg/L | 5 | <5 | <5 | <5 | <5 | <5 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 18/12/2024

| PARAMETER | UOM | LOR | Rinsate 01<br>WATER<br>-<br>9/12/2024<br>SE275864.070 | Rinsate 02<br>WATER<br>-<br>9/12/2024<br>SE275864.071 | Rinsate 03<br>WATER<br>-<br>10/12/2024<br>SE275864.072 | Rinsate 04<br>WATER<br>-<br>10/12/2024<br>SE275864.073 | Rinsate 05<br>WATER<br>-<br>11/12/2024<br>SE275864.074 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |

**Fibre ID in bulk materials [AN602/AS4964]** **Tested: 17/12/2024**

| PARAMETER | UOM | LOR | TP111-0.4-0.5-ACM<br>MATERIAL<br>-<br>9/12/2024<br>SE275864.003 | TP112-0.3-0.4 ACM<br>MATERIAL<br>-<br>9/12/2024<br>SE275864.006 | TP115-0.3-0.5-ACM<br>MATERIAL<br>-<br>9/12/2024<br>SE275864.016 | TP119-ACM<br>MATERIAL<br>-<br>9/12/2024<br>SE275864.026 | TP122-0.1-0.5-ACM<br>MATERIAL<br>-<br>10/12/2024<br>SE275864.040 |
|---|---|---|---|---|---|---|---|
| Asbestos Detected | No unit | - | Yes | Yes | Yes | Yes | Yes |
| Date Analysed* | No unit | - | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 | 18/12/2024 00:00 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water. |
| AN005 | The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11. |
| AN005 | Following wet sieving of the sample,( particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3. |
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C. |
| AN040 | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8. |
| AN101 | pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+. |
| AN106 | Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos /cm or µS/cm @ 25°C. For soils, an extract of as received sample with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Salinity can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. Reference APHA 2510 B. |
| AN122 | Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g. |
| AN122 | The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100.<br>ESP can be used to categorise the sodicity of the soil as below:<br><br>ESP < 6% non-sodic<br>ESP 6-15% sodic<br>ESP >15% strongly sodic<br><br>Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.- |
| AN188 | The organic material in the soil sample is oxidised with chromic acid in the presence of excess sulfuric acid, without external heat being applied. The excess dichromate ion is determined by titration with standard ammonium iron (II) sulfate solution and the amount of oxidised material is calculated from the quantity of dichromate reduced. Referenced to NEPM 105 and AS1289.1.1.1. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN312 | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500 |
| AN318 | Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4). |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available. |

| | |
|---|---|
| AN403 | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents . |
| AN403 | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B. |
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |
| AN420 | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). |
| AN433 | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260. |
| AN602/AS4964 | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned. |
| AN602/AS4964 | Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres. |
| AN602/AS4964 | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg." |
| AN602/AS4964 | The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-<br><br>(a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres):<br>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and<br>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions. |
| AN605 | This technique gravimetrically determines the mass of Bonded Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. Any fibrous asbestos (FA) found in this fraction will be added to the 2-7mm fraction and its mass recorded there. |
| AN605 | This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free/respirable fibres which are only observed by standard trace analysis as per AN602. |
| AN605 | Bonded asbestos containing material (Bonded ACM) comprises asbestos-containing-material which is sound in condition.<br>Fibrous asbestos (FA) comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material.<br>Asbestos fines (AF) includes free fibres, small fibre bundles and also small fragments of bonded ACM that passes through a 7mm sieve - which implies that the bonded ACM fragments have a substantial degree of damage which increases the potential for fibre release. |
| AN-605 | Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009 and NEPM 1999 (2013) schedule B1 section 4.. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# ANALYTICAL REPORT

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 80 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE275864B R0** |
| Date Received | 28/1/2025 |
| Date Reported | 29/1/2025 |

## COMMENTS

Whilst SGS laboratories conform to ISO:17025 standards, results of analysis in this report fall outside of the current scope of NATA accreditation .

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam

## SIGNATORIES

**Ravee SIVASUBRAMANIAM**

Hygiene Team Leader

## Weight of Sample [AN002] Tested: 29/1/2025

| PARAMETER | UOM | LOR | TP111-0.4-0.5-ACM MATERIAL - 9/12/2024 SE275864B.003 | TP112-0.3-0.4 ACM MATERIAL - 9/12/2024 SE275864B.006 | TP115-0.3-0.5-ACM MATERIAL - 9/12/2024 SE275864B.016 | TP119-ACM MATERIAL - 9/12/2024 SE275864B.026 | TP122-0.1-0.5-ACM MATERIAL - 10/12/2024 SE275864B.040 |
|---|---|---|---|---|---|---|---|
| Weight of Sample* | g | 0.01 | 13.72 | 21.47 | 3.96 | 66.28 | 12.50 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | Weight of as received sample determined on a 2 decimal place balance. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# PRELIMINARY STATEMENT OF QA/QC PERFORMANCE

**SE275864 R0**

| CLIENT DETAILS | | LABORATORY DETAILS | |
|---|---|---|---|
| Contact | Harrison Wood | Manager | Shane McDermott |
| Client | SMEC Australia Pty Ltd | Laboratory | SGS Alexandria Environmental |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 | Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | 0411 754 451 | Telephone | +61 2 8594 0400 |
| Facsimile | 02 9925 5566 | Facsimile | +61 2 8594 0499 |
| Email | harrison.wood@smec.com | Email | au.environmental.sydney@sgs.com |
| Project | **30013640 Bankstown New Hostpital DSI** | SGS Reference | **SE275864 R0** |
| Order Number | **30013640** | Date Received | 12 Dec 2024 |
| Samples | 80 | Date Reported | |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Extraction Date | Conductivity and TDS by Calculation - Soil | 2 items |
| | OC Pesticides in Water | 5 items |
| | PAH (Polynuclear Aromatic Hydrocarbons) in Water | 5 items |
| | PCBs in Water | 5 items |
| | pH in soil (1:5) | 4 items |
| | TRH (Total Recoverable Hydrocarbons) in Water | 5 items |
| Analysis Date | Conductivity and TDS by Calculation - Soil | 4 items |
| | VOC's in Soil | 9 items |
| | Volatile Petroleum Hydrocarbons in Soil | 6 items |
| Surrogate | OC Pesticides in Soil | 1 item |
| | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | 3 items |
| | PCBs in Soil | 1 item |
| | VOC's in Soil | 1 item |
| | Volatile Petroleum Hydrocarbons in Soil | 1 item |

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

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 69 Soil, 5 Water, 5 N | Type of documentation received | COC |
| Date documentation received | 16/12/2024 @9:48a | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 7.3°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333760 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 18 Dec 2024† | 16 Dec 2024 | 19 Dec 2024† |
| TP110-0.6-0.7 | SE275864.008 | LB333760 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 18 Dec 2024† | 16 Dec 2024 | 18 Dec 2024† |
| TP114-0.1-0.2 | SE275864.017 | LB333760 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 18 Dec 2024† | 16 Dec 2024 | 19 Dec 2024† |
| TP123-0.4-0.7 | SE275864.042 | LB333760 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 18 Dec 2024† | 17 Dec 2024 | 19 Dec 2024† |
| TP131-0.5-1.1 | SE275864.058 | LB333760 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† |
| TP132-0.5-0.6 | SE275864.063 | LB333760 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† |
| TP108-0.6-1.0 | SE275864.065 | LB333760 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† |

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333850 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333850 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 |
| TP132-0.5-0.6 | SE275864.063 | LB333850 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 19 Dec 2024 | 08 Jan 2025 | 19 Dec 2024 |

## Fibre ID in bulk materials

Method: ME-(AU)-[ENV]AN602/AS4964

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5-ACM | SE275864.003 | LB333528 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 ACM | SE275864.006 | LB333528 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP115-0.3-0.5-ACM | SE275864.016 | LB333528 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP119-ACM | SE275864.026 | LB333528 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP122-0.1-0.5-ACM | SE275864.040 | LB333528 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |

## Fibre Identification in soil

Method: ME-(AU)-[ENV]AS4964/AN602

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.05-0.1 | SE275864.001 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP111-0.4-0.5 | SE275864.002 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP112-0.05-0.1 | SE275864.004 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP113-0.3-0.4 | SE275864.011 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP115-0.8-0.9 | SE275864.015 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP114-0.5-0.6 | SE275864.018 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP114-1.0-1.1 | SE275864.019 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP116-0.1-0.2 | SE275864.022 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP119-0.2-0.3 | SE275864.024 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP103-0.6-0.7 | SE275864.032 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP105-0.1-0.2 | SE275864.033 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP105-0.4-0.5 | SE275864.034 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP107-0.1-0.2 | SE275864.035 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP121-0.1-0.3 | SE275864.047 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP121-0.3-0.5 | SE275864.048 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP120-0.3-0.4 | SE275864.050 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 10 Dec 2025 | 17 Dec 2024 | 10 Dec 2025 | 20 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP127-0.4-0.9 | SE275864.060 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## Fibre Identification in soil (continued)

Method: ME-(AU)-[ENV]AS4964/AN602

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP132-0.2-0.3 | SE275864.062 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 11 Dec 2025 | 17 Dec 2024 | 11 Dec 2025 | 20 Dec 2024 |
| TP102-0.1-0.5 | SE275864.066 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 09 Dec 2025 | 17 Dec 2024 | 09 Dec 2025 | 20 Dec 2024 |

## Gravimetric Determination of Asbestos in Soil

Method: ME-(AU)-[ENV]AN605

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.05-0.1 | SE275864.001 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP111-0.4-0.5 | SE275864.002 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP112-0.05-0.1 | SE275864.004 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP113-0.3-0.4 | SE275864.011 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP115-0.8-0.9 | SE275864.015 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP114-0.5-0.6 | SE275864.018 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP114-1.0-1.1 | SE275864.019 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP116-0.1-0.2 | SE275864.022 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP119-0.2-0.3 | SE275864.024 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP103-0.6-0.7 | SE275864.032 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP105-0.1-0.2 | SE275864.033 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP105-0.4-0.5 | SE275864.034 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP107-0.1-0.2 | SE275864.035 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP121-0.1-0.3 | SE275864.047 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP121-0.3-0.5 | SE275864.048 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP120-0.3-0.4 | SE275864.050 | LB333579 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP127-0.4-0.9 | SE275864.060 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333579 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 20 Dec 2024 |
| TP102-0.1-0.5 | SE275864.066 | LB333579 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |

## Mercury (dissolved) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB333691 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 18 Dec 2024 | 06 Jan 2025 | 18 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB333691 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 18 Dec 2024 | 06 Jan 2025 | 18 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB333691 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 18 Dec 2024 | 07 Jan 2025 | 18 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB333691 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 18 Dec 2024 | 07 Jan 2025 | 18 Dec 2024 |
| Rinsate 05 | SE275864.074 | LB333691 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 18 Dec 2024 | 08 Jan 2025 | 18 Dec 2024 |

## Mercury in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## Mercury in Soil (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP118-0.3-0.4 | SE275864.010 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP114-2.1-2.2 | SE275864.020 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333548 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333548 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333548 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333548 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333548 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333548 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP122-0.8-1.0 | SE275864.039 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP126-0.4-0.6 | SE275864.044 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP125-0.4-0.8 | SE275864.046 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP121-0.8-1.0 | SE275864.049 | LB333550 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP129-0.5-1.0 | SE275864.052 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP128-0.4-1.0 | SE275864.054 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP131-0.5-1.1 | SE275864.058 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP127-0.9-1.2 | SE275864.061 | LB333550 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333551 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP132-0.5-0.6 | SE275864.063 | LB333551 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333551 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333551 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |
| QA03 | SE275864.067 | LB333551 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 17 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 |
| QA04 | SE275864.068 | LB333551 | 10 Dec 2024 | 12 Dec 2024 | 07 Jan 2025 | 17 Dec 2024 | 07 Jan 2025 | 23 Dec 2024 |
| QA06 | SE275864.069 | LB333551 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 17 Dec 2024 | 08 Jan 2025 | 23 Dec 2024 |

## Moisture Content

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP114-2.1-2.2 | SE275864.020 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333541 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## Moisture Content (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP106-0.1-0.5 | SE275864.029 | LB333541 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333541 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333541 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333541 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333541 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 18 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP122-0.8-1.0 | SE275864.039 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP126-0.4-0.6 | SE275864.044 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP125-0.4-0.8 | SE275864.046 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP121-0.8-1.0 | SE275864.049 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP120-0.3-0.4 | SE275864.050 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP129-0.5-1.0 | SE275864.052 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP128-0.4-1.0 | SE275864.054 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP131-0.5-1.1 | SE275864.058 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP127-0.9-1.2 | SE275864.061 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP132-0.5-0.6 | SE275864.063 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| TP102-0.1-0.5 | SE275864.066 | LB333542 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| QA03 | SE275864.067 | LB333542 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| QA04 | SE275864.068 | LB333542 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| QA06 | SE275864.069 | LB333542 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| Trip Blank | SE275864.076 | LB333542 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| Trip Blank | SE275864.078 | LB333542 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |
| Trip Blank | SE275864.080 | LB333542 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 22 Dec 2024 | 19 Dec 2024 |

## OC Pesticides in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## OC Pesticides in Soil (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP123-0.4-0.7 | SE275864.042 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| QA03 | SE275864.067 | LB333534 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| QA04 | SE275864.068 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| Trip Blank | SE275864.076 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.078 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.080 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |

## OC Pesticides in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 05 | SE275864.074 | LB333851 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| QA03 | SE275864.067 | LB333534 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| QA04 | SE275864.068 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| Trip Blank | SE275864.076 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.078 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.080 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 05 | SE275864.074 | LB333851 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |

## PCBs in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| QA03 | SE275864.067 | LB333534 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| QA04 | SE275864.068 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.076 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.078 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |
| Trip Blank | SE275864.080 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 23 Dec 2024 |

## PCBs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## PCBs in Water (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 05 | SE275864.074 | LB333851 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |

## pH in soil (1:5)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333760 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 18 Dec 2024† | 19 Dec 2024 | 18 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333760 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 18 Dec 2024† | 19 Dec 2024 | 18 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333760 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 18 Dec 2024† | 19 Dec 2024 | 18 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333760 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 18 Dec 2024† | 19 Dec 2024 | 18 Dec 2024 |
| TP131-0.5-1.1 | SE275864.058 | LB333760 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 19 Dec 2024 | 18 Dec 2024 |
| TP132-0.5-0.6 | SE275864.063 | LB333760 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 19 Dec 2024 | 18 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333760 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 18 Dec 2024 | 19 Dec 2024 | 18 Dec 2024 |

## TOC in Soil

Method: ME-(AU)-[ENV]AN188

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333861 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333861 | 09 Dec 2024 | 12 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 | 06 Jan 2025 | 19 Dec 2024 |
| TP132-0.5-0.6 | SE275864.063 | LB333861 | 11 Dec 2024 | 12 Dec 2024 | 08 Jan 2025 | 19 Dec 2024 | 08 Jan 2025 | 19 Dec 2024 |

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP114-2.1-2.2 | SE275864.020 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333544 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333544 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333544 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333544 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333544 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333544 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP122-0.8-1.0 | SE275864.039 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP126-0.4-0.6 | SE275864.044 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP125-0.4-0.8 | SE275864.046 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP121-0.8-1.0 | SE275864.049 | LB333545 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP129-0.5-1.0 | SE275864.052 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP128-0.4-1.0 | SE275864.054 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP131-0.5-1.1 | SE275864.058 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP127-0.9-1.2 | SE275864.061 | LB333545 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333546 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP132-0.5-0.6 | SE275864.063 | LB333546 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP108-0.2-0.5 | SE275864.064 | LB333546 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333546 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |
| QA03 | SE275864.067 | LB333546 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 17 Dec 2024 | 07 Jun 2025 | 23 Dec 2024 |
| QA04 | SE275864.068 | LB333546 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 17 Dec 2024 | 08 Jun 2025 | 23 Dec 2024 |
| QA06 | SE275864.069 | LB333546 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 17 Dec 2024 | 09 Jun 2025 | 23 Dec 2024 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB333732 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 18 Dec 2024 | 07 Jun 2025 | 19 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB333732 | 09 Dec 2024 | 12 Dec 2024 | 07 Jun 2025 | 18 Dec 2024 | 07 Jun 2025 | 19 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB333732 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 18 Dec 2024 | 08 Jun 2025 | 19 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB333732 | 10 Dec 2024 | 12 Dec 2024 | 08 Jun 2025 | 18 Dec 2024 | 08 Jun 2025 | 19 Dec 2024 |
| Rinsate 05 | SE275864.074 | LB333732 | 11 Dec 2024 | 12 Dec 2024 | 09 Jun 2025 | 18 Dec 2024 | 09 Jun 2025 | 19 Dec 2024 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333533 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333533 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333534 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| QA03 | SE275864.067 | LB333534 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| QA04 | SE275864.068 | LB333534 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| Trip Blank | SE275864.076 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| Trip Blank | SE275864.078 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |
| Trip Blank | SE275864.080 | LB333534 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 26 Jan 2025 | 20 Dec 2024 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB333851 | 09 Dec 2024 | 12 Dec 2024 | 16 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB333851 | 10 Dec 2024 | 12 Dec 2024 | 17 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## TRH (Total Recoverable Hydrocarbons) in Water (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 05 | SE275864.074 | LB333851 | 11 Dec 2024 | 12 Dec 2024 | 18 Dec 2024 | 19 Dec 2024† | 28 Jan 2025 | 23 Dec 2024 |

## VOC's in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP110-0.6-0.7 | SE275864.008 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP120-0.3-0.4 | SE275864.050 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP102-0.1-0.5 | SE275864.066 | LB333539 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| QA03 | SE275864.067 | LB333539 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| QA04 | SE275864.068 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| Trip Spike | SE275864.075 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Blank | SE275864.076 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Spike | SE275864.077 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Blank | SE275864.078 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Spike | SE275864.079 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Blank | SE275864.080 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |

## VOCs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB334090 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB334090 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB334090 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB334090 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| Rinsate 05 | SE275864.074 | LB334090 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 20 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864.002 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP112-0.3-0.4 | SE275864.005 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP110-0.1-0.2 | SE275864.007 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |

# HOLDING TIME SUMMARY

SE275864 R0

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

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

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

## Volatile Petroleum Hydrocarbons in Soil (continued)

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP110-0.6-0.7 | SE275864.008 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP118-0.3-0.4 | SE275864.010 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP113-0.6-0.7 | SE275864.012 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP113-1.0-1.1 | SE275864.013 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP115-0.3-0.4 | SE275864.014 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP114-0.1-0.2 | SE275864.017 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP117-0.1-0.2 | SE275864.021 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP116-0.6--0.7 | SE275864.023 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP119-0.8-0.9 | SE275864.025 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP109-0.2-0.3 | SE275864.027 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP101-0.1-0.5 | SE275864.028 | LB333538 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 |
| TP106-0.1-0.5 | SE275864.029 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 |
| TP104-0.2-0.6 | SE275864.030 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 |
| TP103-0.1-0.2 | SE275864.031 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 |
| TP107-0.5-0.6 | SE275864.036 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 |
| TP107-1.1-1.2 | SE275864.037 | LB333538 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 |
| TP122-0.1-0.5 | SE275864.038 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP123-0.1-0.4 | SE275864.041 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP123-0.4-0.7 | SE275864.042 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP126-0.1-0.4 | SE275864.043 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP125-0.1-0.3 | SE275864.045 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP120-0.3-0.4 | SE275864.050 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| TP129-0.1-0.5 | SE275864.051 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP128-0.1-0.4 | SE275864.053 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP130-0.1-0.6 | SE275864.055 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP130-0.6-1.0 | SE275864.056 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP131-0.1-0.5 | SE275864.057 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP127-0.1-0.3 | SE275864.059 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP132-0.2-0.3 | SE275864.062 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP108-0.2-0.5 | SE275864.064 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP108-0.6-1.0 | SE275864.065 | LB333539 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 17 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |
| TP102-0.1-0.5 | SE275864.066 | LB333539 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| QA03 | SE275864.067 | LB333539 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 17 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| QA04 | SE275864.068 | LB333539 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 17 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| Trip Spike | SE275864.075 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Blank | SE275864.076 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Spike | SE275864.077 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Blank | SE275864.078 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Spike | SE275864.079 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |
| Trip Blank | SE275864.080 | LB333539 | 05 Dec 2024 | 12 Dec 2024 | 19 Dec 2024 | 17 Dec 2024 | 19 Dec 2024 | 23 Dec 2024† |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| Rinsate 01 | SE275864.070 | LB334090 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| Rinsate 02 | SE275864.071 | LB334090 | 09 Dec 2024 | 12 Dec 2024 | 23 Dec 2024 | 20 Dec 2024 | 23 Dec 2024 | 23 Dec 2024 |
| Rinsate 03 | SE275864.072 | LB334090 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| Rinsate 04 | SE275864.073 | LB334090 | 10 Dec 2024 | 12 Dec 2024 | 24 Dec 2024 | 20 Dec 2024 | 24 Dec 2024 | 23 Dec 2024 |
| Rinsate 05 | SE275864.074 | LB334090 | 11 Dec 2024 | 12 Dec 2024 | 25 Dec 2024 | 20 Dec 2024 | 25 Dec 2024 | 23 Dec 2024 |

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

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

## OC Pesticides in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 102 |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 105 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 107 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 107 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 105 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 106 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 108 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 108 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 108 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 108 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 109 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 108 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 103 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 104 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 103 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 107 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 109 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 88 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 86 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 80 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 15 † |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 84 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 85 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 87 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 87 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 86 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 83 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 86 |
| | QA03 | SE275864.067 | % | 60 - 130% | 86 |
| | QA04 | SE275864.068 | % | 60 - 130% | 88 |

## OC Pesticides in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 97 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 110 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 73 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 91 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 75 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 70 - 130% | 101 |
| | TP112-0.3-0.4 | SE275864.005 | % | 70 - 130% | 102 |
| | TP110-0.1-0.2 | SE275864.007 | % | 70 - 130% | 103 |
| | TP110-0.6-0.7 | SE275864.008 | % | 70 - 130% | 103 |
| | TP118-0.3-0.4 | SE275864.010 | % | 70 - 130% | 100 |
| | TP113-0.6-0.7 | SE275864.012 | % | 70 - 130% | 102 |
| | TP113-1.0-1.1 | SE275864.013 | % | 70 - 130% | 102 |
| | TP115-0.3-0.4 | SE275864.014 | % | 70 - 130% | 105 |
| | TP114-0.1-0.2 | SE275864.017 | % | 70 - 130% | 104 |
| | TP117-0.1-0.2 | SE275864.021 | % | 70 - 130% | 105 |
| | TP116-0.6--0.7 | SE275864.023 | % | 70 - 130% | 104 |
| | TP119-0.8-0.9 | SE275864.025 | % | 70 - 130% | 106 |
| | TP109-0.2-0.3 | SE275864.027 | % | 70 - 130% | 103 |
| | TP101-0.1-0.5 | SE275864.028 | % | 70 - 130% | 101 |
| | TP106-0.1-0.5 | SE275864.029 | % | 70 - 130% | 100 |
| | TP104-0.2-0.6 | SE275864.030 | % | 70 - 130% | 105 |
| | TP103-0.1-0.2 | SE275864.031 | % | 70 - 130% | 98 |
| | TP107-0.5-0.6 | SE275864.036 | % | 70 - 130% | 103 |
| | TP107-1.1-1.2 | SE275864.037 | % | 70 - 130% | 104 |
| | TP122-0.1-0.5 | SE275864.038 | % | 70 - 130% | 98 |
| | TP123-0.1-0.4 | SE275864.041 | % | 70 - 130% | 96 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | TP123-0.4-0.7 | SE275864.042 | % | 70 - 130% | 84 |
| | TP126-0.1-0.4 | SE275864.043 | % | 70 - 130% | 6 † |
| | TP125-0.1-0.3 | SE275864.045 | % | 70 - 130% | 87 |
| | TP129-0.1-0.5 | SE275864.051 | % | 70 - 130% | 94 |
| | TP128-0.1-0.4 | SE275864.053 | % | 70 - 130% | 91 |
| | TP130-0.1-0.6 | SE275864.055 | % | 70 - 130% | 93 |
| | TP130-0.6-1.0 | SE275864.056 | % | 70 - 130% | 86 |
| | TP131-0.1-0.5 | SE275864.057 | % | 70 - 130% | 94 |
| | TP127-0.1-0.3 | SE275864.059 | % | 70 - 130% | 91 |
| | TP132-0.2-0.3 | SE275864.062 | % | 70 - 130% | 90 |
| | TP108-0.2-0.5 | SE275864.064 | % | 70 - 130% | 90 |
| | TP108-0.6-1.0 | SE275864.065 | % | 70 - 130% | 89 |
| | QA03 | SE275864.067 | % | 70 - 130% | 91 |
| | QA04 | SE275864.068 | % | 70 - 130% | 94 |
| d14-p-terphenyl (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 70 - 130% | 98 |
| | TP112-0.3-0.4 | SE275864.005 | % | 70 - 130% | 97 |
| | TP110-0.1-0.2 | SE275864.007 | % | 70 - 130% | 99 |
| | TP110-0.6-0.7 | SE275864.008 | % | 70 - 130% | 101 |
| | TP118-0.3-0.4 | SE275864.010 | % | 70 - 130% | 97 |
| | TP113-0.6-0.7 | SE275864.012 | % | 70 - 130% | 96 |
| | TP113-1.0-1.1 | SE275864.013 | % | 70 - 130% | 98 |
| | TP115-0.3-0.4 | SE275864.014 | % | 70 - 130% | 101 |
| | TP114-0.1-0.2 | SE275864.017 | % | 70 - 130% | 101 |
| | TP117-0.1-0.2 | SE275864.021 | % | 70 - 130% | 101 |
| | TP116-0.6--0.7 | SE275864.023 | % | 70 - 130% | 100 |
| | TP119-0.8-0.9 | SE275864.025 | % | 70 - 130% | 101 |
| | TP109-0.2-0.3 | SE275864.027 | % | 70 - 130% | 100 |
| | TP101-0.1-0.5 | SE275864.028 | % | 70 - 130% | 96 |
| | TP106-0.1-0.5 | SE275864.029 | % | 70 - 130% | 98 |
| | TP104-0.2-0.6 | SE275864.030 | % | 70 - 130% | 99 |
| | TP103-0.1-0.2 | SE275864.031 | % | 70 - 130% | 95 |
| | TP107-0.5-0.6 | SE275864.036 | % | 70 - 130% | 100 |
| | TP107-1.1-1.2 | SE275864.037 | % | 70 - 130% | 100 |
| | TP122-0.1-0.5 | SE275864.038 | % | 70 - 130% | 95 |
| | TP123-0.1-0.4 | SE275864.041 | % | 70 - 130% | 92 |
| | TP123-0.4-0.7 | SE275864.042 | % | 70 - 130% | 86 |
| | TP126-0.1-0.4 | SE275864.043 | % | 70 - 130% | 17 † |
| | TP125-0.1-0.3 | SE275864.045 | % | 70 - 130% | 91 |
| | TP129-0.1-0.5 | SE275864.051 | % | 70 - 130% | 96 |
| | TP128-0.1-0.4 | SE275864.053 | % | 70 - 130% | 94 |
| | TP130-0.1-0.6 | SE275864.055 | % | 70 - 130% | 90 |
| | TP130-0.6-1.0 | SE275864.056 | % | 70 - 130% | 92 |
| | TP131-0.1-0.5 | SE275864.057 | % | 70 - 130% | 93 |
| | TP127-0.1-0.3 | SE275864.059 | % | 70 - 130% | 90 |
| | TP132-0.2-0.3 | SE275864.062 | % | 70 - 130% | 86 |
| | TP108-0.2-0.5 | SE275864.064 | % | 70 - 130% | 88 |
| | TP108-0.6-1.0 | SE275864.065 | % | 70 - 130% | 89 |
| | QA03 | SE275864.067 | % | 70 - 130% | 89 |
| | QA04 | SE275864.068 | % | 70 - 130% | 93 |
| d5-nitrobenzene (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 70 - 130% | 96 |
| | TP112-0.3-0.4 | SE275864.005 | % | 70 - 130% | 99 |
| | TP110-0.1-0.2 | SE275864.007 | % | 70 - 130% | 101 |
| | TP110-0.6-0.7 | SE275864.008 | % | 70 - 130% | 100 |
| | TP118-0.3-0.4 | SE275864.010 | % | 70 - 130% | 96 |
| | TP113-0.6-0.7 | SE275864.012 | % | 70 - 130% | 94 |
| | TP113-1.0-1.1 | SE275864.013 | % | 70 - 130% | 100 |
| | TP115-0.3-0.4 | SE275864.014 | % | 70 - 130% | 99 |
| | TP114-0.1-0.2 | SE275864.017 | % | 70 - 130% | 100 |
| | TP117-0.1-0.2 | SE275864.021 | % | 70 - 130% | 101 |
| | TP116-0.6--0.7 | SE275864.023 | % | 70 - 130% | 101 |
| | TP119-0.8-0.9 | SE275864.025 | % | 70 - 130% | 102 |

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

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d5-nitrobenzene (Surrogate) | TP109-0.2-0.3 | SE275864.027 | % | 70 - 130% | 103 |
| | TP101-0.1-0.5 | SE275864.028 | % | 70 - 130% | 97 |
| | TP106-0.1-0.5 | SE275864.029 | % | 70 - 130% | 100 |
| | TP104-0.2-0.6 | SE275864.030 | % | 70 - 130% | 101 |
| | TP103-0.1-0.2 | SE275864.031 | % | 70 - 130% | 98 |
| | TP107-0.5-0.6 | SE275864.036 | % | 70 - 130% | 99 |
| | TP107-1.1-1.2 | SE275864.037 | % | 70 - 130% | 101 |
| | TP122-0.1-0.5 | SE275864.038 | % | 70 - 130% | 94 |
| | TP123-0.1-0.4 | SE275864.041 | % | 70 - 130% | 93 |
| | TP123-0.4-0.7 | SE275864.042 | % | 70 - 130% | 82 |
| | TP126-0.1-0.4 | SE275864.043 | % | 70 - 130% | 6 † |
| | TP125-0.1-0.3 | SE275864.045 | % | 70 - 130% | 91 |
| | TP129-0.1-0.5 | SE275864.051 | % | 70 - 130% | 91 |
| | TP128-0.1-0.4 | SE275864.053 | % | 70 - 130% | 93 |
| | TP130-0.1-0.6 | SE275864.055 | % | 70 - 130% | 93 |
| | TP130-0.6-1.0 | SE275864.056 | % | 70 - 130% | 85 |
| | TP131-0.1-0.5 | SE275864.057 | % | 70 - 130% | 94 |
| | TP127-0.1-0.3 | SE275864.059 | % | 70 - 130% | 91 |
| | TP132-0.2-0.3 | SE275864.062 | % | 70 - 130% | 90 |
| | TP108-0.2-0.5 | SE275864.064 | % | 70 - 130% | 89 |
| | TP108-0.6-1.0 | SE275864.065 | % | 70 - 130% | 90 |
| | QA03 | SE275864.067 | % | 70 - 130% | 88 |
| | QA04 | SE275864.068 | % | 70 - 130% | 94 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 66 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 58 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 69 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 70 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 62 |
| d14-p-terphenyl (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 73 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 61 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 70 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 73 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 66 |
| d5-nitrobenzene (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 72 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 60 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 74 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 75 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 66 |

## PCBs in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 102 |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 105 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 107 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 107 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 105 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 106 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 108 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 108 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 108 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 108 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 109 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 108 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 103 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 104 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 103 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 107 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 109 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 88 |

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

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

## PCBs in Soil (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 86 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 80 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 15 † |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 84 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 85 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 87 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 87 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 86 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 83 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 86 |
| | QA03 | SE275864.067 | % | 60 - 130% | 86 |
| | QA04 | SE275864.068 | % | 60 - 130% | 88 |

## PCBs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 97 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 110 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 73 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 91 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 75 |

## VOC's in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 70 |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 91 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 96 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 100 |
| | TP118-0.3-0.4 | SE275864.010 | % | 60 - 130% | 94 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 91 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 101 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 93 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 87 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 90 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 94 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 94 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 80 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 92 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 81 |
| | TP104-0.2-0.6 | SE275864.030 | % | 60 - 130% | 97 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 92 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 96 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 100 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 70 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 80 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 88 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 91 |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 84 |
| | TP120-0.3-0.4 | SE275864.050 | % | 60 - 130% | 79 |
| | TP129-0.1-0.5 | SE275864.051 | % | 60 - 130% | 92 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 99 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 79 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 82 |
| | TP131-0.1-0.5 | SE275864.057 | % | 60 - 130% | 85 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 83 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 84 |
| | TP108-0.2-0.5 | SE275864.064 | % | 60 - 130% | 75 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 81 |
| | TP102-0.1-0.5 | SE275864.066 | % | 60 - 130% | 71 |
| | QA03 | SE275864.067 | % | 60 - 130% | 88 |
| | QA04 | SE275864.068 | % | 60 - 130% | 85 |
| | Trip Spike | SE275864.075 | % | 60 - 130% | 71 |
| | Trip Blank | SE275864.076 | % | 60 - 130% | 82 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | Trip Spike | SE275864.077 | % | 60 - 130% | 82 |
| | Trip Blank | SE275864.078 | % | 60 - 130% | 91 |
| | Trip Spike | SE275864.079 | % | 60 - 130% | 78 |
| | Trip Blank | SE275864.080 | % | 60 - 130% | 92 |
| d4-1,2-dichloroethane (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 70 |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 77 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 74 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 79 |
| | TP118-0.3-0.4 | SE275864.010 | % | 60 - 130% | 68 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 72 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 72 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 72 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 66 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 71 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 73 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 82 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 77 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 82 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 77 |
| | TP104-0.2-0.6 | SE275864.030 | % | 60 - 130% | 80 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 72 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 91 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 82 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 80 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 95 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 80 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 81 |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 78 |
| | TP120-0.3-0.4 | SE275864.050 | % | 60 - 130% | 98 |
| | TP129-0.1-0.5 | SE275864.051 | % | 60 - 130% | 82 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 83 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 77 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 76 |
| | TP131-0.1-0.5 | SE275864.057 | % | 60 - 130% | 80 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 69 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 75 |
| | TP108-0.2-0.5 | SE275864.064 | % | 60 - 130% | 67 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 74 |
| | TP102-0.1-0.5 | SE275864.066 | % | 60 - 130% | 82 |
| | QA03 | SE275864.067 | % | 60 - 130% | 73 |
| | QA04 | SE275864.068 | % | 60 - 130% | 77 |
| | Trip Spike | SE275864.075 | % | 60 - 130% | 69 |
| | Trip Blank | SE275864.076 | % | 60 - 130% | 71 |
| | Trip Spike | SE275864.077 | % | 60 - 130% | 77 |
| | Trip Blank | SE275864.078 | % | 60 - 130% | 76 |
| | Trip Spike | SE275864.079 | % | 60 - 130% | 70 |
| | Trip Blank | SE275864.080 | % | 60 - 130% | 82 |
| d8-toluene (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 49 ⓘ |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 85 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 88 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 91 |
| | TP118-0.3-0.4 | SE275864.010 | % | 60 - 130% | 86 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 88 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 91 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 85 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 78 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 82 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 87 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 87 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 74 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 87 |

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

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

## VOC's in Soil (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 75 |
| | TP104-0.2-0.6 | SE275864.030 | % | 60 - 130% | 92 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 86 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 90 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 90 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 94 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 92 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 89 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 93 |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 80 |
| | TP120-0.3-0.4 | SE275864.050 | % | 60 - 130% | 96 |
| | TP129-0.1-0.5 | SE275864.051 | % | 60 - 130% | 92 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 102 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 78 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 81 |
| | TP131-0.1-0.5 | SE275864.057 | % | 60 - 130% | 86 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 79 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 82 |
| | TP108-0.2-0.5 | SE275864.064 | % | 60 - 130% | 73 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 77 |
| | TP102-0.1-0.5 | SE275864.066 | % | 60 - 130% | 76 |
| | QA03 | SE275864.067 | % | 60 - 130% | 86 |
| | QA04 | SE275864.068 | % | 60 - 130% | 82 |
| | Trip Spike | SE275864.075 | % | 60 - 130% | 76 |
| | Trip Blank | SE275864.076 | % | 60 - 130% | 81 |
| | Trip Spike | SE275864.077 | % | 60 - 130% | 89 |
| | Trip Blank | SE275864.078 | % | 60 - 130% | 93 |
| | Trip Spike | SE275864.079 | % | 60 - 130% | 87 |
| | Trip Blank | SE275864.080 | % | 60 - 130% | 92 |

## VOCs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 87 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 86 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 88 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 89 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 84 |
| d4-1,2-dichloroethane (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 90 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 97 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 96 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 96 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 91 |
| d8-toluene (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 101 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 96 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 99 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 97 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 108 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 70 |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 91 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 96 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 100 |
| | TP118-0.3-0.4 | SE275864.010 | % | 60 - 130% | 94 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 91 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 101 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 93 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 87 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 90 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 94 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 94 |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 80 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 92 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 81 |
| | TP104-0.2-0.6 | SE275864.030 | % | 60 - 130% | 97 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 92 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 96 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 100 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 70 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 80 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 88 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 91 |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 84 |
| | TP129-0.1-0.5 | SE275864.051 | % | 60 - 130% | 92 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 99 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 79 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 82 |
| | TP131-0.1-0.5 | SE275864.057 | % | 60 - 130% | 85 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 83 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 84 |
| | TP108-0.2-0.5 | SE275864.064 | % | 60 - 130% | 75 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 81 |
| | QA03 | SE275864.067 | % | 60 - 130% | 88 |
| | QA04 | SE275864.068 | % | 60 - 130% | 85 |
| | Trip Blank | SE275864.076 | % | 60 - 130% | 82 |
| | Trip Blank | SE275864.078 | % | 60 - 130% | 91 |
| | Trip Blank | SE275864.080 | % | 60 - 130% | 92 |
| d4-1,2-dichloroethane (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 70 |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 77 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 74 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 79 |
| | TP118-0.3-0.4 | SE275864.010 | % | 60 - 130% | 68 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 72 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 72 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 72 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 66 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 71 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 73 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 82 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 77 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 82 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 77 |
| | TP104-0.2-0.6 | SE275864.030 | % | 60 - 130% | 80 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 72 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 91 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 82 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 80 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 95 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 80 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 81 |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 78 |
| | TP129-0.1-0.5 | SE275864.051 | % | 60 - 130% | 82 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 83 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 77 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 76 |
| | TP131-0.1-0.5 | SE275864.057 | % | 60 - 130% | 80 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 69 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 75 |
| | TP108-0.2-0.5 | SE275864.064 | % | 60 - 130% | 67 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 74 |
| | QA03 | SE275864.067 | % | 60 - 130% | 73 |
| | QA04 | SE275864.068 | % | 60 - 130% | 77 |

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

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

### Volatile Petroleum Hydrocarbons in Soil (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | Trip Blank | SE275864.076 | % | 60 - 130% | 71 |
| | Trip Blank | SE275864.078 | % | 60 - 130% | 76 |
| | Trip Blank | SE275864.080 | % | 60 - 130% | 82 |
| d8-toluene (Surrogate) | TP111-0.4-0.5 | SE275864.002 | % | 60 - 130% | 49 ① |
| | TP112-0.3-0.4 | SE275864.005 | % | 60 - 130% | 85 |
| | TP110-0.1-0.2 | SE275864.007 | % | 60 - 130% | 88 |
| | TP110-0.6-0.7 | SE275864.008 | % | 60 - 130% | 91 |
| | TP118-0.3-0.4 | SE275864.010 | % | 60 - 130% | 86 |
| | TP113-0.6-0.7 | SE275864.012 | % | 60 - 130% | 88 |
| | TP113-1.0-1.1 | SE275864.013 | % | 60 - 130% | 91 |
| | TP115-0.3-0.4 | SE275864.014 | % | 60 - 130% | 85 |
| | TP114-0.1-0.2 | SE275864.017 | % | 60 - 130% | 78 |
| | TP117-0.1-0.2 | SE275864.021 | % | 60 - 130% | 82 |
| | TP116-0.6--0.7 | SE275864.023 | % | 60 - 130% | 87 |
| | TP119-0.8-0.9 | SE275864.025 | % | 60 - 130% | 87 |
| | TP109-0.2-0.3 | SE275864.027 | % | 60 - 130% | 74 |
| | TP101-0.1-0.5 | SE275864.028 | % | 60 - 130% | 87 |
| | TP106-0.1-0.5 | SE275864.029 | % | 60 - 130% | 75 |
| | TP104-0.2-0.6 | SE275864.030 | % | 60 - 130% | 92 |
| | TP103-0.1-0.2 | SE275864.031 | % | 60 - 130% | 86 |
| | TP107-0.5-0.6 | SE275864.036 | % | 60 - 130% | 90 |
| | TP107-1.1-1.2 | SE275864.037 | % | 60 - 130% | 90 |
| | TP122-0.1-0.5 | SE275864.038 | % | 60 - 130% | 94 |
| | TP123-0.1-0.4 | SE275864.041 | % | 60 - 130% | 92 |
| | TP123-0.4-0.7 | SE275864.042 | % | 60 - 130% | 89 |
| | TP126-0.1-0.4 | SE275864.043 | % | 60 - 130% | 93 |
| | TP125-0.1-0.3 | SE275864.045 | % | 60 - 130% | 80 |
| | TP129-0.1-0.5 | SE275864.051 | % | 60 - 130% | 92 |
| | TP128-0.1-0.4 | SE275864.053 | % | 60 - 130% | 102 |
| | TP130-0.1-0.6 | SE275864.055 | % | 60 - 130% | 78 |
| | TP130-0.6-1.0 | SE275864.056 | % | 60 - 130% | 81 |
| | TP131-0.1-0.5 | SE275864.057 | % | 60 - 130% | 86 |
| | TP127-0.1-0.3 | SE275864.059 | % | 60 - 130% | 79 |
| | TP132-0.2-0.3 | SE275864.062 | % | 60 - 130% | 82 |
| | TP108-0.2-0.5 | SE275864.064 | % | 60 - 130% | 73 |
| | TP108-0.6-1.0 | SE275864.065 | % | 60 - 130% | 77 |
| | QA03 | SE275864.067 | % | 60 - 130% | 86 |
| | QA04 | SE275864.068 | % | 60 - 130% | 82 |
| | Trip Blank | SE275864.076 | % | 60 - 130% | 81 |
| | Trip Blank | SE275864.078 | % | 60 - 130% | 93 |
| | Trip Blank | SE275864.080 | % | 60 - 130% | 92 |

### Volatile Petroleum Hydrocarbons in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 87 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 86 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 88 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 89 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 84 |
| d4-1,2-dichloroethane (Surrogate) | Rinsate 01 | SE275864.070 | % | 60 - 130% | 90 |
| | Rinsate 02 | SE275864.071 | % | 60 - 130% | 97 |
| | Rinsate 03 | SE275864.072 | % | 60 - 130% | 96 |
| | Rinsate 04 | SE275864.073 | % | 60 - 130% | 96 |
| | Rinsate 05 | SE275864.074 | % | 60 - 130% | 91 |
| d8-toluene (Surrogate) | Rinsate 01 | SE275864.070 | % | 40 - 130% | 101 |
| | Rinsate 02 | SE275864.071 | % | 40 - 130% | 96 |
| | Rinsate 03 | SE275864.072 | % | 40 - 130% | 99 |
| | Rinsate 04 | SE275864.073 | % | 40 - 130% | 97 |
| | Rinsate 05 | SE275864.074 | % | 40 - 130% | 108 |

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

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

### Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333760.001 | Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1 | 0.74 |

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

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333850.001 | Exchangeable Sodium, Na | mg/kg | 2 | 0 |
| | Exchangeable Potassium, K | mg/kg | 2 | 0 |
| | Exchangeable Calcium, Ca | mg/kg | 2 | 0 |
| | Exchangeable Magnesium, Mg | mg/kg | 2 | 0 |

### Mercury (dissolved) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333691.001 | Mercury | mg/L | 0.0001 | <0.0001 |

### Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333548.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB333550.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB333551.001 | Mercury | mg/kg | 0.05 | <0.05 |

### OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333533.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | | Dieldrin | mg/kg | 0.1 | <0.1 |
| | | Endrin | mg/kg | 0.1 | <0.1 |
| | | Beta Endosulfan | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 104 |
| LB333534.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | | Dieldrin | mg/kg | 0.1 | <0.1 |

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

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

## OC Pesticides in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333534.001 | | Endrin | mg/kg | 0.1 | <0.1 |
| | | Beta Endosulfan | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 88 |

## OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333851.001 | | Alpha BHC | µg/L | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 |
| | | Beta BHC | µg/L | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | µg/L | 0.1 | <0.1 |
| | | Delta BHC | µg/L | 0.1 | <0.1 |
| | | Heptachlor | µg/L | 0.1 | <0.1 |
| | | Aldrin | µg/L | 0.1 | <0.1 |
| | | Heptachlor epoxide | µg/L | 0.1 | <0.1 |
| | | Gamma Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Chlordane | µg/L | 0.1 | <0.1 |
| | | Alpha Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDE | µg/L | 0.1 | <0.1 |
| | | Dieldrin | µg/L | 0.1 | <0.1 |
| | | Endrin | µg/L | 0.1 | <0.1 |
| | | Beta Endosulfan | µg/L | 0.1 | <0.1 |
| | | p,p'-DDD | µg/L | 0.1 | <0.1 |
| | | Endrin aldehyde | µg/L | 0.1 | <0.1 |
| | | Endosulfan sulphate | µg/L | 0.1 | <0.1 |
| | | p,p'-DDT | µg/L | 0.1 | <0.1 |
| | | Endrin ketone | µg/L | 0.1 | <0.1 |
| | | Methoxychlor | µg/L | 0.1 | <0.1 |
| | | Mirex | µg/L | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 87 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333533.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | | Fluorene | mg/kg | 0.1 | <0.1 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 104 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 104 |
| | | d14-p-terphenyl (Surrogate) | % | - | 100 |
| LB333534.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |

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

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

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

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333534.001 | | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | | Fluorene | mg/kg | 0.1 | <0.1 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 96 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 98 |
| | | d14-p-terphenyl (Surrogate) | % | - | 96 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333851.001 | | Naphthalene | µg/L | 0.1 | <0.1 |
| | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | | Acenaphthene | µg/L | 0.1 | <0.1 |
| | | Fluorene | µg/L | 0.1 | <0.1 |
| | | Phenanthrene | µg/L | 0.1 | <0.1 |
| | | Anthracene | µg/L | 0.1 | <0.1 |
| | | Fluoranthene | µg/L | 0.1 | <0.1 |
| | | Pyrene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | | Chrysene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 109 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 111 |
| | | d14-p-terphenyl (Surrogate) | % | - | 111 |

## PCBs in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333533.001 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1232 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1242 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1248 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1254 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1260 | mg/kg | 0.1 | <0.1 |
| | | Total PCBs | mg/kg | 0.1 | <0.1 |
| | Surrogates | TCMX (Surrogate) | % | - | 104 |
| LB333534.001 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1232 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1242 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1248 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1254 | mg/kg | 0.1 | <0.1 |
| | | Arochlor 1260 | mg/kg | 0.1 | <0.1 |
| | | Total PCBs | mg/kg | 0.1 | <0.1 |
| | Surrogates | TCMX (Surrogate) | % | - | 88 |

## PCBs in Water

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

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

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

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

### PCBs in Water (continued)

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333851.001 | Arochlor 1016 | µg/L | 1 | <1 |
| | Arochlor 1221 | µg/L | 1 | <1 |
| | Arochlor 1232 | µg/L | 1 | <1 |
| | Arochlor 1242 | µg/L | 1 | <1 |
| | Arochlor 1248 | µg/L | 1 | <1 |
| | Arochlor 1254 | µg/L | 1 | <1 |
| | Arochlor 1260 | µg/L | 1 | <1 |

### TOC in Soil

Method: ME-(AU)-[ENV]AN188

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333861.001 | Total Organic Carbon | %w/w | 0.05 | <0.05 |

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

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333544.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Iron, Fe | mg/kg | 50 | <50 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2.0 |
| LB333545.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2.0 |
| LB333546.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Iron, Fe | mg/kg | 50 | <50 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2.0 |

### Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333732.001 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |

### TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333533.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |
| LB333534.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |

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

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

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB333851.001 | TRH C10-C14 | µg/L | 50 | <50 |
| | TRH C15-C28 | µg/L | 200 | <200 |
| | TRH C29-C36 | µg/L | 200 | <200 |
| | TRH C37-C40 | µg/L | 200 | <200 |

## VOC's in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333538.001 | Fumigants | 2,2-dichloropropane | mg/kg | 0.1 | NVL |
| | | 1,2-dichloropropane | mg/kg | 0.1 | NVL |
| | | cis-1,3-dichloropropene | mg/kg | 0.1 | NVL |
| | | trans-1,3-dichloropropene | mg/kg | 0.1 | NVL |
| | | 1,2-dibromoethane (EDB) | mg/kg | 0.1 | NVL |
| | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | NVL |
| | | Chloromethane | mg/kg | 1 | NVL |
| | | Vinyl chloride (Chloroethene) | mg/kg | 0.1 | NVL |
| | | Bromomethane | mg/kg | 1 | NVL |
| | | Chloroethane | mg/kg | 1 | NVL |
| | | Trichlorofluoromethane | mg/kg | 1 | NVL |
| | | 1,1-dichloroethene | mg/kg | 0.1 | NVL |
| | | Iodomethane | mg/kg | 5 | NVL |
| | | Dichloromethane (Methylene chloride) | mg/kg | 0.5 | NVL |
| | | Allyl chloride | mg/kg | 0.1 | NVL |
| | | trans-1,2-dichloroethene | mg/kg | 0.1 | NVL |
| | | 1,1-dichloroethane | mg/kg | 0.1 | NVL |
| | | cis-1,2-dichloroethene | mg/kg | 0.1 | NVL |
| | | Bromochloromethane | mg/kg | 0.1 | NVL |
| | | 1,2-dichloroethane | mg/kg | 0.1 | NVL |
| | | 1,1,1-trichloroethane | mg/kg | 0.1 | NVL |
| | | 1,1-dichloropropene | mg/kg | 0.1 | NVL |
| | | Carbon tetrachloride | mg/kg | 0.1 | NVL |
| | | Dibromomethane | mg/kg | 0.1 | NVL |
| | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | NVL |
| | | 1,1,2-trichloroethane | mg/kg | 0.1 | NVL |
| | | 1,3-dichloropropane | mg/kg | 0.1 | NVL |
| | | Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | NVL |
| | | 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | NVL |
| | | 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | NVL |
| | | 1,2,3-trichloropropane | mg/kg | 0.1 | NVL |
| | | trans-1,4-dichloro-2-butene | mg/kg | 1 | NVL |
| | | 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | NVL |
| | | Hexachlorobutadiene | mg/kg | 0.1 | NVL |
| | Halogenated Aromatics | Chlorobenzene | mg/kg | 0.1 | NVL |
| | | Bromobenzene | mg/kg | 0.1 | NVL |
| | | 2-chlorotoluene | mg/kg | 0.1 | NVL |
| | | 4-chlorotoluene | mg/kg | 0.1 | NVL |
| | | 1,3-dichlorobenzene | mg/kg | 0.1 | NVL |
| | | 1,4-dichlorobenzene | mg/kg | 0.1 | NVL |
| | | 1,2-dichlorobenzene | mg/kg | 0.1 | NVL |
| | | 1,2,4-trichlorobenzene | mg/kg | 0.1 | NVL |
| | | 1,2,3-trichlorobenzene | mg/kg | 0.1 | NVL |
| | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | NVL |
| | | Toluene | mg/kg | 0.1 | NVL |
| | | Ethylbenzene | mg/kg | 0.1 | NVL |
| | | m/p-xylene | mg/kg | 0.2 | NVL |
| | | Styrene (Vinyl benzene) | mg/kg | 0.1 | NVL |
| | | o-xylene | mg/kg | 0.1 | NVL |
| | | Isopropylbenzene (Cumene) | mg/kg | 0.1 | NVL |
| | | n-propylbenzene | mg/kg | 0.1 | NVL |
| | | 1,3,5-trimethylbenzene | mg/kg | 0.1 | NVL |
| | | tert-butylbenzene | mg/kg | 0.1 | NVL |
| | | 1,2,4-trimethylbenzene | mg/kg | 0.1 | NVL |

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

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

VOC's in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333538.001 | Monocyclic Aromatic Hydrocarbons | sec-butylbenzene | mg/kg | 0.1 | NVL |
| | | p-isopropyltoluene | mg/kg | 0.1 | NVL |
| | | n-butylbenzene | mg/kg | 0.1 | NVL |
| | Nitrogenous Compounds | Acrylonitrile | mg/kg | 0.1 | NVL |
| | | 2-nitropropane | mg/kg | 10 | NVL |
| | Oxygenated Compounds | Acetone (2-propanone) | mg/kg | 10 | NVL |
| | | MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | NVL |
| | | Vinyl acetate | mg/kg | 10 | NVL |
| | | MIBK (4-methyl-2-pentanone) | mg/kg | 1 | NVL |
| | | 2-hexanone (MBK) | mg/kg | 5 | NVL |
| | Polycyclic VOCs | Naphthalene (VOC) | mg/kg | 0.1 | NVL |
| | Sulphonated | Carbon disulfide | mg/kg | 0.5 | NVL |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 78 |
| | | d8-toluene (Surrogate) | % | - | NVL |
| | | Bromofluorobenzene (Surrogate) | % | - | 70 |
| | Totals | Total Other Chlorinated Hydrocarbons VIC EPA | mg/kg | 1.8 | NVL |
| | | Total Chlorinated Hydrocarbons VIC EPA | mg/kg | 1.8 | NVL |
| | | Total BTEX | mg/kg | 0.6 | NVL |
| | Trihalomethanes | Chloroform (THM) | mg/kg | 0.1 | NVL |
| | | Bromodichloromethane (THM) | mg/kg | 0.1 | NVL |
| | | Dibromochloromethane (THM) | mg/kg | 0.1 | NVL |
| | | Bromoform (THM) | mg/kg | 0.1 | NVL |
| LB333539.001 | Fumigants | 2,2-dichloropropane | mg/kg | 0.1 | <0.1 |
| | | 1,2-dichloropropane | mg/kg | 0.1 | <0.1 |
| | | cis-1,3-dichloropropene | mg/kg | 0.1 | <0.1 |
| | | trans-1,3-dichloropropene | mg/kg | 0.1 | <0.1 |
| | | 1,2-dibromoethane (EDB) | mg/kg | 0.1 | <0.1 |
| | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | <1 |
| | | Chloromethane | mg/kg | 1 | <1 |
| | | Vinyl chloride (Chloroethene) | mg/kg | 0.1 | <0.1 |
| | | Bromomethane | mg/kg | 1 | <1 |
| | | Chloroethane | mg/kg | 1 | <1 |
| | | Trichlorofluoromethane | mg/kg | 1 | <1 |
| | | 1,1-dichloroethene | mg/kg | 0.1 | <0.1 |
| | | Iodomethane | mg/kg | 5 | <5 |
| | | Dichloromethane (Methylene chloride) | mg/kg | 0.5 | <0.5 |
| | | Allyl chloride | mg/kg | 0.1 | <0.1 |
| | | trans-1,2-dichloroethene | mg/kg | 0.1 | <0.1 |
| | | 1,1-dichloroethane | mg/kg | 0.1 | <0.1 |
| | | cis-1,2-dichloroethene | mg/kg | 0.1 | <0.1 |
| | | Bromochloromethane | mg/kg | 0.1 | <0.1 |
| | | 1,2-dichloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,1,1-trichloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,1-dichloropropene | mg/kg | 0.1 | <0.1 |
| | | Carbon tetrachloride | mg/kg | 0.1 | <0.1 |
| | | Dibromomethane | mg/kg | 0.1 | <0.1 |
| | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | <0.1 |
| | | 1,1,2-trichloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,3-dichloropropane | mg/kg | 0.1 | <0.1 |
| | | Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | <0.1 |
| | | 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,2,3-trichloropropane | mg/kg | 0.1 | <0.1 |
| | | trans-1,4-dichloro-2-butene | mg/kg | 1 | <1 |
| | | 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobutadiene | mg/kg | 0.1 | <0.1 |
| | Halogenated Aromatics | Chlorobenzene | mg/kg | 0.1 | <0.1 |
| | | Bromobenzene | mg/kg | 0.1 | <0.1 |
| | | 2-chlorotoluene | mg/kg | 0.1 | <0.1 |
| | | 4-chlorotoluene | mg/kg | 0.1 | <0.1 |
| | | 1,3-dichlorobenzene | mg/kg | 0.1 | <0.1 |

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

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

## VOC's in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333539.001 | Halogenated Aromatics | 1,4-dichlorobenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2-dichlorobenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2,4-trichlorobenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2,3-trichlorobenzene | mg/kg | 0.1 | <0.1 |
| | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | <0.1 |
| | | Toluene | mg/kg | 0.1 | <0.1 |
| | | Ethylbenzene | mg/kg | 0.1 | <0.1 |
| | | m/p-xylene | mg/kg | 0.2 | <0.2 |
| | | Styrene (Vinyl benzene) | mg/kg | 0.1 | <0.1 |
| | | o-xylene | mg/kg | 0.1 | <0.1 |
| | | Isopropylbenzene (Cumene) | mg/kg | 0.1 | <0.1 |
| | | n-propylbenzene | mg/kg | 0.1 | <0.1 |
| | | 1,3,5-trimethylbenzene | mg/kg | 0.1 | <0.1 |
| | | tert-butylbenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2,4-trimethylbenzene | mg/kg | 0.1 | <0.1 |
| | | sec-butylbenzene | mg/kg | 0.1 | <0.1 |
| | | p-isopropyltoluene | mg/kg | 0.1 | <0.1 |
| | | n-butylbenzene | mg/kg | 0.1 | <0.1 |
| | Nitrogenous Compounds | Acrylonitrile | mg/kg | 0.1 | <0.1 |
| | | 2-nitropropane | mg/kg | 10 | <10 |
| | Oxygenated Compounds | Acetone (2-propanone) | mg/kg | 10 | <10 |
| | | MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | <0.1 |
| | | Vinyl acetate | mg/kg | 10 | <10 |
| | | MIBK (4-methyl-2-pentanone) | mg/kg | 1 | <1 |
| | | 2-hexanone (MBK) | mg/kg | 5 | <5 |
| | Polycyclic VOCs | Naphthalene (VOC) | mg/kg | 0.1 | <0.1 |
| | Sulphonated | Carbon disulfide | mg/kg | 0.5 | <0.5 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 90 |
| | | d8-toluene (Surrogate) | % | - | 90 |
| | | Bromofluorobenzene (Surrogate) | % | - | 75 |
| | Totals | Total Other Chlorinated Hydrocarbons VIC EPA | mg/kg | 1.8 | <1.8 |
| | | Total Chlorinated Hydrocarbons VIC EPA | mg/kg | 1.8 | <1.8 |
| | | Total BTEX | mg/kg | 0.6 | <0.6 |
| | Trihalomethanes | Chloroform (THM) | mg/kg | 0.1 | <0.1 |
| | | Bromodichloromethane (THM) | mg/kg | 0.1 | <0.1 |
| | | Dibromochloromethane (THM) | mg/kg | 0.1 | <0.1 |
| | | Bromoform (THM) | mg/kg | 0.1 | <0.1 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334090.001 | Fumigants | 2,2-dichloropropane | µg/L | 0.5 | <0.5 |
| | | 1,2-dichloropropane | µg/L | 0.5 | <0.5 |
| | | cis-1,3-dichloropropene | µg/L | 0.5 | <0.5 |
| | | trans-1,3-dichloropropene | µg/L | 0.5 | <0.5 |
| | | 1,2-dibromoethane (EDB) | µg/L | 0.5 | <0.5 |
| | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | µg/L | 5 | <5 |
| | | Chloromethane | µg/L | 5 | <5 |
| | | Vinyl chloride (Chloroethene) | µg/L | 0.3 | <0.3 |
| | | Bromomethane | µg/L | 10 | <10 |
| | | Chloroethane | µg/L | 5 | <5 |
| | | Trichlorofluoromethane | µg/L | 1 | <1 |
| | | 1,1-dichloroethene | µg/L | 0.5 | <0.5 |
| | | Iodomethane | µg/L | 5 | <5 |
| | | Dichloromethane (Methylene chloride) | µg/L | 5 | <5 |
| | | Allyl chloride | µg/L | 2 | <2 |
| | | trans-1,2-dichloroethene | µg/L | 0.5 | <0.5 |
| | | 1,1-dichloroethane | µg/L | 0.5 | <0.5 |
| | | cis-1,2-dichloroethene | µg/L | 0.5 | <0.5 |
| | | Bromochloromethane | µg/L | 0.5 | <0.5 |
| | | 1,2-dichloroethane | µg/L | 0.5 | <0.5 |
| | | 1,1,1-trichloroethane | µg/L | 0.5 | <0.5 |

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

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

## VOCs in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334090.001 | Halogenated Aliphatics | 1,1-dichloropropene | µg/L | 0.5 | <0.5 |
| | | Carbon tetrachloride | µg/L | 0.5 | <0.5 |
| | | Dibromomethane | µg/L | 0.5 | <0.5 |
| | | Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | <0.5 |
| | | 1,1,2-trichloroethane | µg/L | 0.5 | <0.5 |
| | | 1,3-dichloropropane | µg/L | 0.5 | <0.5 |
| | | Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | <0.5 |
| | | 1,1,1,2-tetrachloroethane | µg/L | 0.5 | <0.5 |
| | | 1,1,2,2-tetrachloroethane | µg/L | 0.5 | <0.5 |
| | | 1,2,3-trichloropropane | µg/L | 0.5 | <0.5 |
| | | trans-1,4-dichloro-2-butene | µg/L | 1 | <1 |
| | | 1,2-dibromo-3-chloropropane | µg/L | 0.5 | <0.5 |
| | | Hexachlorobutadiene | µg/L | 0.5 | <0.5 |
| | Halogenated Aromatics | Chlorobenzene | µg/L | 0.5 | <0.5 |
| | | Bromobenzene | µg/L | 0.5 | <0.5 |
| | | 2-chlorotoluene | µg/L | 0.5 | <0.5 |
| | | 4-chlorotoluene | µg/L | 0.5 | <0.5 |
| | | 1,3-dichlorobenzene | µg/L | 0.5 | <0.5 |
| | | 1,4-dichlorobenzene | µg/L | 0.3 | <0.3 |
| | | 1,2-dichlorobenzene | µg/L | 0.5 | <0.5 |
| | | 1,2,4-trichlorobenzene | µg/L | 0.5 | <0.5 |
| | | 1,2,3-trichlorobenzene | µg/L | 0.5 | <0.5 |
| | Monocyclic Aromatic Hydrocarbons | Benzene | µg/L | 0.5 | <0.5 |
| | | Toluene | µg/L | 0.5 | <0.5 |
| | | Ethylbenzene | µg/L | 0.5 | <0.5 |
| | | m/p-xylene | µg/L | 1 | <1 |
| | | Styrene (Vinyl benzene) | µg/L | 0.5 | <0.5 |
| | | o-xylene | µg/L | 0.5 | <0.5 |
| | | Isopropylbenzene (Cumene) | µg/L | 0.5 | <0.5 |
| | | n-propylbenzene | µg/L | 0.5 | <0.5 |
| | | 1,3,5-trimethylbenzene | µg/L | 0.5 | <0.5 |
| | | tert-butylbenzene | µg/L | 0.5 | <0.5 |
| | | 1,2,4-trimethylbenzene | µg/L | 0.5 | <0.5 |
| | | sec-butylbenzene | µg/L | 0.5 | <0.5 |
| | | p-isopropyltoluene | µg/L | 0.5 | <0.5 |
| | | n-butylbenzene | µg/L | 0.5 | <0.5 |
| | Nitrogenous Compounds | Acrylonitrile | µg/L | 0.5 | <0.5 |
| | Oxygenated Compounds | Acetone (2-propanone) | µg/L | 10 | <10 |
| | | MtBE (Methyl-tert-butyl ether) | µg/L | 0.5 | <0.5 |
| | | Vinyl acetate | µg/L | 10 | <10 |
| | | MEK (2-butanone) | µg/L | 10 | <10 |
| | | MIBK (4-methyl-2-pentanone) | µg/L | 5 | <5 |
| | | 2-hexanone (MBK) | µg/L | 5 | <5 |
| | Polycyclic VOCs | Naphthalene (VOC) | µg/L | 0.5 | <0.5 |
| | Sulphonated | Carbon disulfide | µg/L | 2 | <2 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 90 |
| | | d8-toluene (Surrogate) | % | - | 106 |
| | | Bromofluorobenzene (Surrogate) | % | - | 74 |
| | Trihalomethanes | Chloroform (THM) | µg/L | 0.5 | <0.5 |
| | | Bromodichloromethane (THM) | µg/L | 0.5 | <0.5 |
| | | Dibromochloromethane (THM) | µg/L | 0.5 | <0.5 |
| | | Bromoform (THM) | µg/L | 0.5 | <0.5 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB333538.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 78 |
| LB333539.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 90 |

## Volatile Petroleum Hydrocarbons in Water

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

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

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

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

Volatile Petroleum Hydrocarbons in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334090.001 | | TRH C6-C9 | µg/L | 40 | <40 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 90 |
| | | d8-toluene (Surrogate) | % | - | 106 |
| | | Bromofluorobenzene (Surrogate) | % | - | 74 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275864.065 | LB333760.014 | Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1 | 140 | 130 | 31 | 7 |

## Mercury (dissolved) in Water

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275933.008 | LB333691.014 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 199 |
| SE275944.002 | LB333691.017 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 199 |

## Mercury in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275864.020 | LB333548.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE275864.051 | LB333550.014 | Mercury | mg/kg | 0.05 | 0.24 | 0.16 | 55 | 42 |
| SE275864.061 | LB333550.024 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE275864.069 | LB333551.011 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |

## Moisture Content

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275864.020 | LB333541.011 | % Moisture | %w/w | 1 | 20.9 | 22.0 | 35 | 5 |
| SE275864.037 | LB333541.022 | % Moisture | %w/w | 1 | 21.4 | 21.3 | 35 | 0 |
| SE275864.050 | LB333542.011 | % Moisture | %w/w | 1 | 18.6 | 17.0 | 36 | 9 |
| SE275864.061 | LB333542.022 | % Moisture | %w/w | 1 | 23.2 | 24.0 | 34 | 3 |
| SE275864.068 | LB333542.030 | % Moisture | %w/w | 1 | 27.2 | 28.8 | 34 | 6 |
| SE275864.069 | LB333542.032 | % Moisture | %w/w | 1 | 24.6 | 22.4 | 34 | 9 |

## OC Pesticides in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333533.014 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.54 | 0.55 | 30 | 2 |
| SE275864.037 | LB333533.024 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.037 | LB333533.024 | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.54 | 0.53 | 30 | 1 |
| SE275864.059 | LB333534.026 | | Alpha BHC | mg/kg | 0.1 | <0.1 | 0.0002843079 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | 0.0001505041 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | 0.0001375706 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | 0.0021816992 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.1 | 0.0017852129 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | <0.1 | 0.0026633527 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.1 | 0.0015032529 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | 0.0001067112 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | 0.0001332859 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | 0.0002028699 | 200 | 0 |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | 0.0003361558 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | 0.0170872182 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | 0.0014842429 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.1 | <0.1 | 0.0117653982 | 200 | 0 |
| | | | Endrin | mg/kg | 0.1 | <0.1 | 0.0020366678 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | 0.0085900171 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | 0.0005207456 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | 0.0029971316 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | 0.0015288548 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | 0.0023705065 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | 0.0015708468 | 200 | 0 |
| | | | Total OC Pesticides | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.43 | 0.4414386396 | 30 | 3 |
| SE275864.068 | LB333534.027 | | Alpha BHC | mg/kg | 0.1 | <0.1 | 0.0001300056 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | 4.3407403542 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | 0.0008798310 | 200 | 0 |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | 0.0008745930 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.1 | 0.0002616544 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | <0.1 | 0.0001700779 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.1 | 0.0003217551 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | 0.0004123881 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | 0.0003234068 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | 0.0011747466 | 200 | 0 |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | 0.0014981535 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | 0.0095603390 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | 0.0010586049 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.1 | <0.1 | 0.0015979440 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## OC Pesticides in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.068 | LB333534.027 | | Endrin | mg/kg | 0.1 | <0.1 | 0.0001413847 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | 0.0027182287 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | 0.0005353192 | 200 | 0 |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | 0.0014824999 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | 0.0002736800 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | 0.0024362137 | 200 | 0 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | 0.0049767280 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | 0.0031369639 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | 0.0014042627 | 200 | 0 |
| | | | Total OC Pesticides | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.44 | 0.4222880591 | 30 | 4 |

## OC Pesticides in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.074 | LB333851.028 | | Alpha BHC | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Hexachlorobenzene (HCB) | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta BHC | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Lindane (gamma BHC) | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Delta BHC | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Aldrin | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Heptachlor epoxide | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Gamma Chlordane | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Alpha Chlordane | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Alpha Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDE | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dieldrin | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Beta Endosulfan | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDD | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin aldehyde | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endosulfan sulphate | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | p,p'-DDT | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Endrin ketone | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Methoxychlor | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Mirex | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | µg/L | - | 0.11 | 0.12 | 30 | 9 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333533.014 | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Phenanthrene | mg/kg | 0.1 | 0.3 | 0.2 | 72 | 15 |
| | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Fluoranthene | mg/kg | 0.1 | 0.5 | 0.4 | 52 | 20 |
| | | Pyrene | mg/kg | 0.1 | 0.5 | 0.4 | 52 | 16 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | 0.2 | 0.1 | 96 | 16 |
| | | Chrysene | mg/kg | 0.1 | 0.2 | 0.2 | 84 | 10 |
| | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.2 | 0.2 | 89 | 1 |
| | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.2 | 0.2 | 90 | 8 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 0.2 | 0.2 | 75 | 6 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.2 | 0.2 | 83 | 2 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.2 | 0.2 | 86 | 3 |
| | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | 0.3 | 0.3 | 78 | 6 |
| | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | 0.4 | 0.3 | 68 | 5 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333533.014 | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | 0.4 | 0.4 | 86 | 4 |
| | | | Total PAH (18) | mg/kg | 0.8 | 2.5 | 2.3 | 34 | 11 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| SE275864.037 | LB333533.024 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 1 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 0 |
| SE275864.059 | LB333534.026 | | Naphthalene | mg/kg | 0.1 | <0.1 | 0.0006330490 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0.0009077607 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0.0009913678 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | 0.0024697943 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | 0.0002323753 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | 0.0004071198 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | <0.1 | 0.0148458132 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | 0.0021690460 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | 0.0258793391 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | <0.1 | 0.0323024194 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 0.0098599798 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | 0.0288189540 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 0.0181696727 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0.0138913534 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | 0.0217406966 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 0.0188821608 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | 0.0021117265 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 0.0261654605 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2 | 0.121 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | <0.3 | 0.242 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | 0 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.4691708751 | 30 | 3 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.4742754145 | 30 | 4 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.4589956528 | 30 | 2 |
| SE275864.068 | LB333534.027 | | Naphthalene | mg/kg | 0.1 | <0.1 | 0.0015287063 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0.0006223961 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0.0005263215 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | 0.0069642914 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | 0.0011063319 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | 0.0018339900 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.068 | LB333534.027 | | Phenanthrene | mg/kg | 0.1 | <0.1 | 0.0371210144 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | 0.0054471490 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | <0.1 | 0.0997957631 | 147 | 0 |
| | | | Pyrene | mg/kg | 0.1 | <0.1 | 0.1021901901 | 145 | 2 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 0.0376701998 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | 0.0509164233 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 0.0414148458 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0.0428477165 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | 0.0572548301 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 0.0443825070 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | 0.0075802082 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 0.0470736038 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2 | 0.121 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | <0.3 | 0.242 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | 0.1021901901 | 200 | 2 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.4522871040 | 30 | 4 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.4560093014 | 30 | 3 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.4529988442 | 30 | 3 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.074 | LB333851.028 | | Naphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 | 175 | 0 |
| | | | Fluorene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.3 | 0.4 | 30 | 21 |
| | | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.3 | 0.4 | 30 | 18 |
| | | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.3 | 0.4 | 30 | 21 |
| SE275928.006 | LB333851.027 | | Naphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Chrysene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275928.006 | LB333851.027 | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.2 | 0.3 | 30 | 18 |
| | | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.2 | 0.3 | 30 | 25 |
| | | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.3 | 0.4 | 30 | 28 |

## PCBs in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333533.014 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.54 | 0.55 | 30 | 1 |
| SE275864.037 | LB333533.024 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.54 | 0.54 | 30 | 1 |
| SE275864.059 | LB333534.026 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Total PCBs | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.43 | 0.441 | 30 | 3 |
| SE275864.068 | LB333534.027 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Total PCBs | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.44 | 0.422 | 30 | 4 |

## PCBs in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.074 | LB333851.028 | | Arochlor 1016 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Arochlor 1221 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Arochlor 1232 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Arochlor 1242 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Arochlor 1248 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Arochlor 1254 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Arochlor 1260 | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | µg/L | - | 0.1 | 0.2 | 30 | 36 ② |

## pH in soil (1:5)

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275864.065 | LB333760.014 | pH (CaCl2) | pH Units | 0.1 | 4.3 | 4.3 | 32 | 0 |

## TOC in Soil

Method: ME-(AU)-[ENV]AN188

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275837.022 | LB333861.016 | Total Organic Carbon | %w/w | 0.05 | 0.06 | 0.06 | 115 | 7 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275864.020 | LB333544.014 | Arsenic, As | mg/kg | 1 | 6 | 7 | 45 | 15 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 12 | 14 | 34 | 12 |
| | | Copper, Cu | mg/kg | 0.5 | 20 | 18 | 33 | 9 |
| | | Nickel, Ni | mg/kg | 0.5 | 4.5 | 4.5 | 41 | 1 |
| | | Lead, Pb | mg/kg | 1 | 14 | 16 | 37 | 12 |
| | | Zinc, Zn | mg/kg | 2 | 28 | 28 | 37 | 0 |
| SE275864.051 | LB333545.014 | Arsenic, As | mg/kg | 1 | 6 | 6 | 48 | 2 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 14 | 14 | 34 | 0 |
| | | Copper, Cu | mg/kg | 0.5 | 16 | 17 | 33 | 3 |
| | | Nickel, Ni | mg/kg | 0.5 | 9.0 | 9.1 | 36 | 0 |
| | | Lead, Pb | mg/kg | 1 | 26 | 26 | 34 | 1 |
| | | Zinc, Zn | mg/kg | 2 | 51 | 51 | 34 | 1 |
| SE275864.061 | LB333545.024 | Arsenic, As | mg/kg | 1 | 8 | 7 | 44 | 12 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 15 | 14 | 33 | 12 |
| | | Copper, Cu | mg/kg | 0.5 | 12 | 12 | 34 | 4 |
| | | Nickel, Ni | mg/kg | 0.5 | 3.0 | 2.6 | 48 | 14 |
| | | Lead, Pb | mg/kg | 1 | 14 | 11 | 38 | 18 |
| | | Zinc, Zn | mg/kg | 2 | 17 | 16 | 42 | 9 |
| SE275864.069 | LB333546.011 | Arsenic, As | mg/kg | 1 | 3 | 2 | 73 | 21 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 7.7 | 8.0 | 36 | 3 |
| | | Copper, Cu | mg/kg | 0.5 | 18 | 17 | 33 | 4 |
| | | Nickel, Ni | mg/kg | 0.5 | 4.6 | 4.7 | 41 | 1 |
| | | Lead, Pb | mg/kg | 1 | 9 | 10 | 41 | 15 |
| | | Zinc, Zn | mg/kg | 2 | 39 | 41 | 35 | 4 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE275904.003 | LB333732.014 | Arsenic | µg/L | 1 | 2 | 2 | 73 | 1 |
| | | Cadmium | µg/L | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Chromium | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Copper | µg/L | 1 | 1 | <1 | 116 | 6 |
| | | Lead | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | Nickel | µg/L | 1 | <1 | <1 | 194 | 0 |
| | | Zinc | µg/L | 5 | 10 | 5 | 81 | 55 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333533.014 | | TRH C10-C14 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | 45 | 48 | 127 | 5 |
| | | | TRH C29-C36 | mg/kg | 45 | 57 | 63 | 105 | 10 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | 110 | 133 | 1 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 134 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | 200 | 0 |
| SE275864.037 | LB333533.024 | | TRH C10-C14 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | 200 | 0 |
| SE275864.059 | LB333534.026 | | TRH C10-C14 | mg/kg | 20 | <20 | <20 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.059 | LB333534.026 | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 194 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | 96 | <45 | 95 | 72 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | 98 | <90 | 156 | 9 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | 200 | 0 |
| SE275864.068 | LB333534.027 | | TRH C10-C14 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | 200 | 0 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.074 | LB333851.028 | | TRH C10-C14 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C15-C28 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C29-C36 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C37-C40 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C10-C40 | µg/L | 320 | <320 | <320 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 85 | 96 | 96 | 13 |
| | | | TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | 85 | 96 | 96 | 13 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | 200 | 0 |
| SE275928.006 | LB333851.027 | | TRH C10-C14 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C15-C28 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C29-C36 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C37-C40 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C10-C40 | µg/L | 320 | <650 | <650 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | <60 | <60 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | <60 | <60 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | 200 | 0 |

## VOC's in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333538.014 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Polycyclic | Naphthalene (VOC) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | d8-toluene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | Totals | Total BTEX | mg/kg | 0.6 | NVL | NVL | NVL | NVL |
| | | | Total Xylenes | mg/kg | 0.3 | NVL | NVL | NVL | NVL |
| SE275864.037 | LB333538.024 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Polycyclic | Naphthalene (VOC) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | d8-toluene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## VOC's in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.037 | LB333538.024 | Surrogates | Bromofluorobenzene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | Totals | Total BTEX | mg/kg | 0.6 | NVL | NVL | NVL | NVL |
| | | | Total Xylenes | mg/kg | 0.3 | NVL | NVL | NVL | NVL |
| SE275864.056 | LB333539.015 | Monocyclic | Benzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Aromatic | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Polycyclic | Naphthalene (VOC) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | d8-toluene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | Totals | Total BTEX | mg/kg | 0.6 | NVL | NVL | NVL | NVL |
| | | | Total Xylenes | mg/kg | 0.3 | NVL | NVL | NVL | NVL |
| SE275864.068 | LB333539.036 | Monocyclic | Benzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Aromatic | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Polycyclic | Naphthalene (VOC) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | d8-toluene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | Totals | Total BTEX | mg/kg | 0.6 | NVL | NVL | NVL | NVL |
| | | | Total Xylenes | mg/kg | 0.3 | NVL | NVL | NVL | NVL |

## VOCs in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.074 | LB334090.026 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.1 | 8.9 | 30 | 2 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.8 | 9.7 | 30 | 10 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 8.4 | 10.4 | 30 | 22 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |
| SE275928.001 | LB334090.027 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.7 | 9.3 | 30 | 4 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.8 | 9.8 | 30 | 0 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 10.6 | 10.6 | 30 | 1 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.021 | LB333538.014 | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.1 | 7.6 | 50 | 6 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.2 | 8.9 | 50 | 9 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.0 | 9.6 | 50 | 6 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| SE275864.037 | LB333538.024 | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.2 | 7.9 | 50 | 3 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 9.0 | 8.6 | 50 | 5 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Volatile Petroleum Hydrocarbons in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.037 | LB333538.024 | Surrogates | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.0 | 9.4 | 50 | 6 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| SE275864.056 | LB333539.015 | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.6 | 8.7 | 50 | 14 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 9.1 | 50 | 11 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.2 | 9.1 | 50 | 10 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| SE275864.068 | LB333539.036 | | TRH C6-C10 | mg/kg | 25 | <25 | 0 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | 0 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.7 | 6.1328724570 | 50 | 23 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.2 | 7.0542060666 | 50 | 15 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.5 | 7.5128322101 | 50 | 12 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | 0.0007368347 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | 0 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.074 | LB334090.023 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.1 | 8.9 | 30 | 2 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.8 | 9.7 | 30 | 10 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 8.4 | 10 | 30 | 22 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |
| SE275928.001 | LB334090.024 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.7 | 9.3 | 30 | 4 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.8 | 9.8 | 30 | 0 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 11 | 30 | 1 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

### Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333760.002 | Conductivity of Extract (1:5 dry sample basis) | µS/cm | 1 | NA | 303 | 85 - 115 | 103 |

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

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333850.002 | Exchangeable Sodium, Na | meq/100g | 0.01 | 0.19 | 0.188 | 80 - 120 | 102 |
| | Exchangeable Potassium, K | meq/100g | 0.01 | 0.14 | 0.141 | 80 - 120 | 100 |
| | Exchangeable Calcium, Ca | meq/100g | 0.01 | 1.9 | 2.17 | 80 - 120 | 88 |
| | Exchangeable Magnesium, Mg | meq/100g | 0.02 | 1.4 | 1.53 | 80 - 120 | 90 |

### Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333548.002 | Mercury | mg/kg | 0.05 | 0.18 | 0.2 | 80 - 120 | 91 |
| LB333550.002 | Mercury | mg/kg | 0.05 | 0.20 | 0.2 | 80 - 120 | 101 |
| LB333551.002 | Mercury | mg/kg | 0.05 | 0.18 | 0.2 | 80 - 120 | 91 |

### OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333533.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 100 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 102 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 103 |
| | | Dieldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 107 |
| | | Endrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 92 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 86 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.55 | 0.5 | 40 - 130 | 109 |
| LB333534.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 95 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 113 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 104 |
| | | Dieldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 121 |
| | | Endrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 101 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 122 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.44 | 0.5 | 40 - 130 | 88 |

### OC Pesticides in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333851.002 | | Delta BHC | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 82 |
| | | Heptachlor | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 85 |
| | | Aldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 85 |
| | | Dieldrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 85 |
| | | Endrin | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 82 |
| | | p,p'-DDT | µg/L | 0.1 | 0.2 | 0.2 | 60 - 140 | 83 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | µg/L | - | 0.15 | 0.15 | 40 - 130 | 99 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333533.002 | | Naphthalene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.7 | 4 | 60 - 140 | 119 |
| | | Acenaphthene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 116 |
| | | Phenanthrene | mg/kg | 0.1 | 5.0 | 4 | 60 - 140 | 124 |
| | | Anthracene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 115 |
| | | Fluoranthene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 116 |
| | | Pyrene | mg/kg | 0.1 | 4.9 | 4 | 60 - 140 | 123 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 5.3 | 4 | 60 - 140 | 132 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 101 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 106 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 100 |
| LB333534.002 | | Naphthalene | mg/kg | 0.1 | 3.7 | 4 | 60 - 140 | 93 |
| | | Acenaphthylene | mg/kg | 0.1 | 3.8 | 4 | 60 - 140 | 94 |
| | | Acenaphthene | mg/kg | 0.1 | 3.8 | 4 | 60 - 140 | 94 |
| | | Phenanthrene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 107 |
| | | Anthracene | mg/kg | 0.1 | 4.0 | 4 | 60 - 140 | 100 |
| | | Fluoranthene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 106 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333534.002 | | Pyrene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 95 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 96 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 97 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333851.002 | | Naphthalene | µg/L | 0.1 | 40 | 40 | 60 - 140 | 100 |
| | | Acenaphthylene | µg/L | 0.1 | 43 | 40 | 60 - 140 | 107 |
| | | Acenaphthene | µg/L | 0.1 | 42 | 40 | 60 - 140 | 105 |
| | | Phenanthrene | µg/L | 0.1 | 41 | 40 | 60 - 140 | 102 |
| | | Anthracene | µg/L | 0.1 | 39 | 40 | 60 - 140 | 97 |
| | | Fluoranthene | µg/L | 0.1 | 39 | 40 | 60 - 140 | 98 |
| | | Pyrene | µg/L | 0.1 | 40 | 40 | 60 - 140 | 99 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 45 | 40 | 60 - 140 | 113 |
| | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.6 | 0.5 | 40 - 130 | 115 |
| | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.6 | 0.5 | 40 - 130 | 128 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.5 | 0.5 | 40 - 130 | 109 |

### PCBs in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333533.002 | | Arochlor 1260 | mg/kg | 0.1 | 0.4 | 0.4 | 60 - 140 | 105 |
| | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.55 | 0.5 | 40 - 130 | 109 |
| LB333534.002 | | Arochlor 1260 | mg/kg | 0.1 | 0.4 | 0.4 | 60 - 140 | 108 |
| | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.44 | 0.5 | 40 - 130 | 88 |

### PCBs in Water

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333851.002 | Arochlor 1260 | µg/L | 1 | <1 | 0.4 | 60 - 140 | 135 |

### TOC in Soil

Method: ME-(AU)-[ENV]AN188

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333861.002 | Total Organic Carbon | %w/w | 0.05 | 0.30 | 0.325 | 80 - 120 | 94 |

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

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333544.002 | Arsenic, As | mg/kg | 1 | 330 | 318.22 | 80 - 120 | 105 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.5 | 4.81 | 70 - 130 | 93 |
| | Chromium, Cr | mg/kg | 0.5 | 39 | 38.31 | 80 - 120 | 102 |
| | Copper, Cu | mg/kg | 0.5 | 300 | 290 | 80 - 120 | 104 |
| | Iron, Fe | mg/kg | 50 | 34000 | 39905 | 80 - 120 | 86 |
| | Nickel, Ni | mg/kg | 0.5 | 180 | 187 | 80 - 120 | 98 |
| | Lead, Pb | mg/kg | 1 | 89 | 89.9 | 80 - 120 | 98 |
| | Zinc, Zn | mg/kg | 2 | 270 | 273 | 80 - 120 | 98 |
| LB333545.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 110 |
| | Cadmium, Cd | mg/kg | 0.3 | 3.6 | 4.81 | 70 - 130 | 74 |
| | Chromium, Cr | mg/kg | 0.5 | 41 | 38.31 | 80 - 120 | 107 |
| | Copper, Cu | mg/kg | 0.5 | 310 | 290 | 80 - 120 | 106 |
| | Nickel, Ni | mg/kg | 0.5 | 190 | 187 | 80 - 120 | 102 |
| | Lead, Pb | mg/kg | 1 | 92 | 89.9 | 80 - 120 | 102 |
| | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 105 |
| LB333546.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 110 |
| | Cadmium, Cd | mg/kg | 0.3 | 3.7 | 4.81 | 70 - 130 | 77 |
| | Chromium, Cr | mg/kg | 0.5 | 40 | 38.31 | 80 - 120 | 104 |
| | Copper, Cu | mg/kg | 0.5 | 310 | 290 | 80 - 120 | 108 |
| | Iron, Fe | mg/kg | 50 | 40000 | 39905 | 80 - 120 | 100 |
| | Nickel, Ni | mg/kg | 0.5 | 190 | 187 | 80 - 120 | 102 |
| | Lead, Pb | mg/kg | 1 | 93 | 89.9 | 80 - 120 | 103 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333546.002 | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 105 |

### Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB333732.002 | Arsenic | µg/L | 1 | 19 | 20 | 80 - 120 | 96 |
| | Cadmium | µg/L | 0.1 | 21 | 20 | 80 - 120 | 106 |
| | Chromium | µg/L | 1 | 21 | 20 | 80 - 120 | 105 |
| | Copper | µg/L | 1 | 22 | 20 | 80 - 120 | 108 |
| | Lead | µg/L | 1 | 21 | 20 | 80 - 120 | 106 |
| | Nickel | µg/L | 1 | 20 | 20 | 80 - 120 | 102 |
| | Zinc | µg/L | 5 | 21 | 20 | 80 - 120 | 107 |

### TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333533.002 | | TRH C10-C14 | mg/kg | 20 | 39 | 40 | 60 - 140 | 98 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 111 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 106 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 40 | 40 | 60 - 140 | 100 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 123 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 124 |
| LB333534.002 | | TRH C10-C14 | mg/kg | 20 | 50 | 40 | 60 - 140 | 125 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 110 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 87 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 48 | 40 | 60 - 140 | 119 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 96 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 89 |

### TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333851.002 | | TRH C10-C14 | µg/L | 50 | 1200 | 1200 | 60 - 140 | 103 |
| | | TRH C15-C28 | µg/L | 200 | 1400 | 1200 | 60 - 140 | 117 |
| | | TRH C29-C36 | µg/L | 200 | 1500 | 1200 | 60 - 140 | 122 |
| | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 1400 | 1200 | 60 - 140 | 113 |
| | | TRH >C16-C34 (F3) | µg/L | 500 | 1400 | 1200 | 60 - 140 | 121 |
| | | TRH >C34-C40 (F4) | µg/L | 500 | 740 | 600 | 60 - 140 | 124 |

### VOC's in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333538.002 | Halogenated Aliphatics | 1,1-dichloroethene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | 1,2-dichloroethane | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | Halogenated | Chlorobenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | Trihalomethan | Chloroform (THM) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| LB333539.002 | Halogenated Aliphatics | 1,1-dichloroethene | mg/kg | 0.1 | 3.3 | 5 | 60 - 140 | 65 |
| | | 1,2-dichloroethane | mg/kg | 0.1 | 4.9 | 5 | 60 - 140 | 98 |
| | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | 4.0 | 5 | 60 - 140 | 80 |
| | Halogenated | Chlorobenzene | mg/kg | 0.1 | 5.3 | 5 | 60 - 140 | 106 |
| | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | 3.4 | 5 | 60 - 140 | 68 |
| | | Toluene | mg/kg | 0.1 | 4.5 | 5 | 60 - 140 | 90 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.2 | 5 | 60 - 140 | 85 |
| | | m/p-xylene | mg/kg | 0.2 | 8.1 | 10 | 60 - 140 | 81 |
| | | o-xylene | mg/kg | 0.1 | 4.3 | 5 | 60 - 140 | 86 |
| | Trihalomethan | Chloroform (THM) | mg/kg | 0.1 | 4.6 | 5 | 60 - 140 | 91 |

### VOCs in Water

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

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

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOCs in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334090.002 | Halogenated | 1,1-dichloroethene | µg/L | 0.5 | 62 | 45.45 | 60 - 140 | 136 |
| | Aliphatics | 1,2-dichloroethane | µg/L | 0.5 | 56 | 45.45 | 60 - 140 | 124 |
| | | Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | 49 | 45.45 | 60 - 140 | 107 |
| | Halogenated | Chlorobenzene | µg/L | 0.5 | 61 | 45.45 | 60 - 140 | 135 |
| | Monocyclic | Benzene | µg/L | 0.5 | 48 | 45.45 | 60 - 140 | 106 |
| | Aromatic | Toluene | µg/L | 0.5 | 54 | 45.45 | 60 - 140 | 119 |
| | | Ethylbenzene | µg/L | 0.5 | 53 | 45.45 | 60 - 140 | 116 |
| | | m/p-xylene | µg/L | 1 | 110 | 90.9 | 60 - 140 | 116 |
| | | o-xylene | µg/L | 0.5 | 54 | 45.45 | 60 - 140 | 120 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.3 | 10 | 60 - 140 | 103 |
| | | d8-toluene (Surrogate) | µg/L | - | 9.8 | 10 | 70 - 130 | 98 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.4 | 10 | 70 - 130 | 114 |
| | Trihalomethan | Chloroform (THM) | µg/L | 0.5 | 57 | 45.45 | 60 - 140 | 125 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB333538.002 | | TRH C6-C10 | mg/kg | 25 | 64 | 92.5 | 60 - 140 | 69 |
| | | TRH C6-C9 | mg/kg | 20 | 56 | 80 | 60 - 140 | 70 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 39 | 62.5 | 60 - 140 | 63 |
| LB333539.002 | | TRH C6-C10 | mg/kg | 25 | 69 | 92.5 | 60 - 140 | 75 |
| | | TRH C6-C9 | mg/kg | 20 | 62 | 80 | 60 - 140 | 78 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 45 | 62.5 | 60 - 140 | 72 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334090.002 | | TRH C6-C10 | µg/L | 50 | 890 | 946.63 | 60 - 140 | 94 |
| | | TRH C6-C9 | µg/L | 40 | 800 | 818.71 | 60 - 140 | 97 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 10.3 | 10 | 60 - 140 | 103 |
| | | d8-toluene (Surrogate) | µg/L | - | 9.8 | 10 | 70 - 130 | 98 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 11.4 | 10 | 70 - 130 | 114 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 570 | 639.67 | 60 - 140 | 89 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Mercury (dissolved) in Water

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE275864.070 | LB333691.004 | Mercury | mg/L | 0.0001 | 0.0019 | <0.0001 | 0.008 | 93 |

## Mercury in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333548.004 | Mercury | mg/kg | 0.05 | 0.39 | 0.20 | 0.2 | 94 |
| SE275864.038 | LB333550.004 | Mercury | mg/kg | 0.05 | 0.20 | <0.05 | 0.2 | 92 |

## OC Pesticides in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333533.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 101 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 102 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 96 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dieldrin | mg/kg | 0.1 | 0.3 | 0.2 | 0.2 | 62 |
| | | | Endrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 119 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 89 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Total OC Pesticides | mg/kg | 0.1 | 1.4 | 0.2 | - | - |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | 1.4 | 0.2 | - | - |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | 0.6 | <0.1 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.53 | 0.51 | - | 105 |
| SE275864.038 | LB333534.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 93 |
| | | | Heptachlor | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 113 |
| | | | Aldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 104 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dieldrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 117 |
| | | | Endrin | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 107 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | <0.1 | 0.2 | 119 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## OC Pesticides in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.038 | LB333534.004 | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Total OC Pesticides | mg/kg | 0.1 | 1.3 | <0.1 | - | - |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | 1.3 | <0.1 | - | - |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | 0.6 | <0.1 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.43 | 0.44 | - | 86 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333533.004 | | Naphthalene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 106 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | 0.1 | <0.1 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 4.5 | 0.2 | 4 | 108 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 106 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 5.1 | 1.3 | 4 | 94 |
| | | | Anthracene | mg/kg | 0.1 | 4.3 | 0.3 | 4 | 100 |
| | | | Fluoranthene | mg/kg | 0.1 | 5.0 | 1.8 | 4 | 78 |
| | | | Pyrene | mg/kg | 0.1 | 5.4 | 1.9 | 4 | 86 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0.5 | 1.0 | - | - |
| | | | Chrysene | mg/kg | 0.1 | 0.5 | 0.9 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.4 | 0.7 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.4 | 0.7 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 5.2 | 0.9 | 4 | 107 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.3 | 0.5 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | 0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.3 | 0.5 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | 5.4 | 1.4 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | 5.4 | 1.4 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | 5.5 | 1.4 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 41 | 11 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 96 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 102 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 94 |
| SE275864.038 | LB333534.004 | | Naphthalene | mg/kg | 0.1 | 3.6 | <0.1 | 4 | 90 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 3.7 | <0.1 | 4 | 92 |
| | | | Acenaphthene | mg/kg | 0.1 | 3.7 | <0.1 | 4 | 92 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 104 |
| | | | Anthracene | mg/kg | 0.1 | 3.8 | <0.1 | 4 | 96 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.1 | <0.1 | 4 | 101 |
| | | | Pyrene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 109 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 107 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | 4.3 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | 4.4 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | 4.4 | <0.3 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 32 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 93 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 95 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 92 |

## PCBs in Soil

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

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

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## PCBs in Soil (continued)

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333533.004 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.1 | 0.4 | <0.1 | 0.4 | 109 |
| | | | Total PCBs | mg/kg | 0.1 | 0.4 | <0.1 | - | - |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.53 | 0.51 | - | 105 |
| SE275864.038 | LB333534.004 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.1 | 0.4 | <0.1 | 0.4 | 107 |
| | | | Total PCBs | mg/kg | 0.1 | 0.4 | <0.1 | - | - |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.43 | 0.44 | - | 86 |

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

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333544.004 | Arsenic, As | mg/kg | 1 | 53 | 7 | 50 | 93 |
| | | Cadmium, Cd | mg/kg | 0.3 | 44 | <0.3 | 50 | 88 |
| | | Chromium, Cr | mg/kg | 0.5 | 66 | 21 | 50 | 89 |
| | | Copper, Cu | mg/kg | 0.5 | 75 | 30 | 50 | 90 |
| | | Nickel, Ni | mg/kg | 0.5 | 62 | 18 | 50 | 89 |
| | | Lead, Pb | mg/kg | 1 | 170 | 130 | 50 | 75 |
| | | Zinc, Zn | mg/kg | 2 | 200 | 160 | 50 | 85 |
| SE275864.038 | LB333545.004 | Arsenic, As | mg/kg | 1 | 47 | 3 | 50 | 88 |
| | | Cadmium, Cd | mg/kg | 0.3 | 46 | <0.3 | 50 | 91 |
| | | Chromium, Cr | mg/kg | 0.5 | 51 | 8.9 | 50 | 85 |
| | | Copper, Cu | mg/kg | 0.5 | 99 | 57 | 50 | 83 |
| | | Nickel, Ni | mg/kg | 0.5 | 150 | 120 | 50 | 57 ⑤ |
| | | Lead, Pb | mg/kg | 1 | 54 | 18 | 50 | 72 |
| | | Zinc, Zn | mg/kg | 2 | 110 | 73 | 50 | 84 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE275864.070 | LB333732.004 | Arsenic | µg/L | 1 | 18 | <1 | 20 | 92 |
| | | Cadmium | µg/L | 0.1 | 21 | <0.1 | 20 | 103 |
| | | Chromium | µg/L | 1 | 20 | <1 | 20 | 101 |
| | | Copper | µg/L | 1 | 21 | <1 | 20 | 104 |
| | | Lead | µg/L | 1 | 21 | <1 | 20 | 103 |
| | | Nickel | µg/L | 1 | 19 | <1 | 20 | 97 |
| | | Zinc | µg/L | 5 | 21 | <5 | 20 | 105 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333533.004 | | TRH C10-C14 | mg/kg | 20 | 42 | <20 | 40 | 89 |
| | | | TRH C15-C28 | mg/kg | 45 | 83 | 86 | 40 | -7 ⑤ |
| | | | TRH C29-C36 | mg/kg | 45 | 86 | 67 | 40 | 48 ⑤ |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | 210 | 150 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 44 | <25 | 40 | 87 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 44 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | 120 | 130 | 40 | -40 ⑤ |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | - | - |
| SE275864.038 | LB333534.004 | | TRH C10-C14 | mg/kg | 20 | 53 | <20 | 40 | 127 |
| | | | TRH C15-C28 | mg/kg | 45 | 48 | <45 | 40 | 109 |
| | | | TRH C29-C36 | mg/kg | 45 | 63 | <45 | 40 | 122 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | 160 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | - | - |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.038 | LB333534.004 | TRH F | TRH >C10-C16 | mg/kg | 25 | 50 | <25 | 40 | 118 |
| | | Bands | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 50 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 40 | 116 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | - | - |

## VOC's in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333538.004 | Monocyclic | Benzene | mg/kg | 0.1 | 3.7 | <0.1 | 5 | 73 |
| | | Aromatic | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Polycyclic | Naphthalene (VOC) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | d8-toluene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | Totals | Total BTEX | mg/kg | 0.6 | NVL | NVL | NVL | NVL |
| | | | Total Xylenes | mg/kg | 0.3 | NVL | NVL | NVL | NVL |
| SE275864.038 | LB333539.004 | Monocyclic | Benzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Aromatic | Toluene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | Ethylbenzene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | | m/p-xylene | mg/kg | 0.2 | NVL | NVL | NVL | NVL |
| | | | o-xylene | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Polycyclic | Naphthalene (VOC) | mg/kg | 0.1 | NVL | NVL | NVL | NVL |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | d8-toluene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | NVL | NVL | NVL | NVL |
| | | Totals | Total BTEX | mg/kg | 0.6 | NVL | NVL | NVL | NVL |
| | | | Total Xylenes | mg/kg | 0.3 | NVL | NVL | NVL | NVL |

## VOCs in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE275864.071 | LB334090.028 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | 45.45 | 113 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | 45.45 | 116 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | 45.45 | 112 |
| | | | m/p-xylene | µg/L | 1 | <1 | 90.9 | 112 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | 45.45 | 111 |
| | | Polycyclic | Naphthalene (VOC) | µg/L | 0.5 | <0.5 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.7 | - | 105 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.6 | - | 111 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 8.6 | - | 104 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | - | - |

## Volatile Petroleum Hydrocarbons in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.002 | LB333538.004 | | TRH C6-C10 | mg/kg | 25 | 65 | <25 | 92.5 | 69 |
| | | | TRH C6-C9 | mg/kg | 20 | 58 | <20 | 80 | 72 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.3 | 7.0 | - | 73 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 7.6 | 4.9 | - | 76 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.2 | 7.0 | - | 82 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 3.4 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 42 | <25 | 62.5 | 65 |

## Volatile Petroleum Hydrocarbons in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE275864.071 | LB334090.025 | | TRH C6-C10 | µg/L | 50 | <50 | 946.63 | 101 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | 818.71 | 101 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 9.7 | - | 105 |
| | | | d8-toluene (Surrogate) | µg/L | - | 9.6 | - | 111 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 8.6 | - | 104 |
| | | VPH F | Benzene (F0) | µg/L | 0.5 | <0.5 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | 639.67 | 102 |

# MATRIX SPIKE DUPLICATES

SE275864 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE275864.038 | LB333539.004 | | TRH C6-C10 | mg/kg | 25 | - | 67 | - | 201 |
| | | | TRH C6-C9 | mg/kg | 20 | - | 59 | - | 201 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | - | 9.8 | - | 200 |
| | | | d8-toluene (Surrogate) | mg/kg | - | - | 9.6 | - | 200 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | - | 9.8 | - | 200 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | - | 4.1 | - | - |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | - | 39 | - | 202 |

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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# SAMPLE RECEIPT ADVICE

SE275864

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 80 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Thu 12/12/2024 |
| Report Due | Mon 23/12/2024 |
| SGS Reference | **SE275864** |

## SUBMISSION DETAILS

This is to confirm that 80 samples were received on Thursday 12/12/2024. Results are expected to be ready by COB Monday 23/12/2024.
Please quote SGS reference SE275864 when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Sample counts by matrix | 70 Soil, 5 Water, 5 Material | Type of documentation received | COC |
| Date documentation received | 16/12/2024 @9:48am | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 7.3°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

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

## COMMENTS

Clay content subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.
Report No.
QA01A-QA08A forwardwd to Eurofins.
Samples #9 and 45 - bags not received and therefore Asbestos Gravimetric won't be analysed.
16 Soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
2 Extra samples received - TP124_0.1-0, TP124_0.5-0

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable Elements in Soil/Waste | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|---|---|---|---|
| 002 | TP111-0.4-0.5 | 27 | 26 | 8 | 8 | 10 | 79 | 7 |
| 005 | TP112-0.3-0.4 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 007 | TP110-0.1-0.2 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 008 | TP110-0.6-0.7 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 010 | TP118-0.3-0.4 | - | 26 | - | 7 | 10 | 11 | 7 |
| 012 | TP113-0.6-0.7 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 013 | TP113-1.0-1.1 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 014 | TP115-0.3-0.4 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 017 | TP114-0.1-0.2 | 27 | 26 | 8 | 8 | 10 | 11 | 7 |
| 020 | TP114-2.1-2.2 | - | - | - | 7 | - | - | - |
| 021 | TP117-0.1-0.2 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 023 | TP116-0.6--0.7 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable Elements in Soil/Waste | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|---|---|---|---|
| 025 | TP119-0.8-0.9 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 027 | TP109-0.2-0.3 | 27 | 26 | 8 | 7 | 10 | 79 | 7 |
| 028 | TP101-0.1-0.5 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 029 | TP106-0.1-0.5 | 27 | 26 | 8 | 7 | 10 | 79 | 7 |
| 030 | TP104-0.2-0.6 | - | 26 | - | 7 | 10 | 11 | 7 |
| 031 | TP103-0.1-0.2 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 036 | TP107-0.5-0.6 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 037 | TP107-1.1-1.2 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 038 | TP122-0.1-0.5 | 27 | 26 | 8 | 7 | 10 | 79 | 7 |
| 039 | TP122-0.8-1.0 | - | - | - | 7 | - | - | - |
| 041 | TP123-0.1-0.4 | 27 | 26 | 8 | 7 | 10 | 79 | 7 |
| 042 | TP123-0.4-0.7 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 043 | TP126-0.1-0.4 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 044 | TP126-0.4-0.6 | - | - | - | 7 | - | - | - |
| 045 | TP125-0.1-0.3 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 046 | TP125-0.4-0.8 | - | - | - | 7 | - | - | - |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable Elements in Soil/Waste | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|---|---|---|---|
| 049 | TP121-0.8-1.0 | - | - | - | 7 | - | - | - |
| 050 | TP120-0.3-0.4 | - | - | - | - | - | 79 | - |
| 051 | TP129-0.1-0.5 | - | 26 | - | 7 | 10 | 11 | 7 |
| 052 | TP129-0.5-1.0 | - | - | - | 7 | - | - | - |
| 053 | TP128-0.1-0.4 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 054 | TP128-0.4-1.0 | - | - | - | 7 | - | - | - |
| 055 | TP130-0.1-0.6 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 056 | TP130-0.6-1.0 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 057 | TP131-0.1-0.5 | - | 26 | - | 7 | 10 | 11 | 7 |
| 058 | TP131-0.5-1.1 | - | - | - | 7 | - | - | - |
| 059 | TP127-0.1-0.3 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 061 | TP127-0.9-1.2 | - | - | - | 7 | - | - | - |
| 062 | TP132-0.2-0.3 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 063 | TP132-0.5-0.6 | - | - | - | 8 | - | - | - |
| 064 | TP108-0.2-0.5 | - | 26 | - | 7 | 10 | 11 | 7 |
| 065 | TP108-0.6-1.0 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 066 | TP102-0.1-0.5 | - | - | - | - | - | 79 | - |
| 067 | QA03 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 068 | QA04 | 27 | 26 | 8 | 7 | 10 | 11 | 7 |
| 069 | QA06 | - | - | - | 7 | - | - | - |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|
| 075 | Trip Spike | - | 11 | - |
| 076 | Trip Blank | 10 | 11 | 7 |
| 077 | Trip Spike | - | 11 | - |
| 078 | Trip Blank | 10 | 11 | 7 |
| 079 | Trip Spike | - | 11 | - |
| 080 | Trip Blank | 10 | 11 | 7 |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Fibre Identification in soil | Gravimetric Determination of Asbestos in Soil | Mercury in Soil | Moisture Content |
|---|---|---|---|---|---|
| 001 | TP111-0.05-0.1 | 3 | 10 | - | - |
| 002 | TP111-0.4-0.5 | 3 | 10 | 1 | 1 |
| 004 | TP112-0.05-0.1 | 3 | 10 | - | - |
| 005 | TP112-0.3-0.4 | 3 | 10 | 1 | 1 |
| 007 | TP110-0.1-0.2 | 3 | 10 | 1 | 1 |
| 008 | TP110-0.6-0.7 | - | - | 1 | 1 |
| 010 | TP118-0.3-0.4 | 3 | 10 | 1 | 1 |
| 011 | TP113-0.3-0.4 | 3 | 10 | - | - |
| 012 | TP113-0.6-0.7 | 3 | 10 | 1 | 1 |
| 013 | TP113-1.0-1.1 | - | - | 1 | 1 |
| 014 | TP115-0.3-0.4 | 3 | 10 | 1 | 1 |
| 015 | TP115-0.8-0.9 | 3 | 10 | - | - |
| 017 | TP114-0.1-0.2 | - | - | 1 | 1 |
| 018 | TP114-0.5-0.6 | 3 | 10 | - | - |
| 019 | TP114-1.0-1.1 | 3 | 10 | - | - |
| 020 | TP114-2.1-2.2 | - | - | 1 | 1 |
| 021 | TP117-0.1-0.2 | 3 | 10 | 1 | 1 |
| 022 | TP116-0.1-0.2 | 3 | 10 | - | - |
| 023 | TP116-0.6--0.7 | - | - | 1 | 1 |
| 024 | TP119-0.2-0.3 | 3 | 10 | - | - |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Fibre Identification in soil | Gravimetric Determination of Asbestos in Soil | Mercury in Soil | Moisture Content |
|---|---|---|---|---|---|
| 025 | TP119-0.8-0.9 | - | - | 1 | 1 |
| 027 | TP109-0.2-0.3 | 3 | 10 | 1 | 1 |
| 028 | TP101-0.1-0.5 | 3 | 10 | 1 | 1 |
| 029 | TP106-0.1-0.5 | 3 | 10 | 1 | 1 |
| 030 | TP104-0.2-0.6 | 3 | 10 | 1 | 1 |
| 031 | TP103-0.1-0.2 | 3 | 10 | 1 | 1 |
| 032 | TP103-0.6-0.7 | 3 | 10 | - | - |
| 033 | TP105-0.1-0.2 | 3 | 10 | - | - |
| 034 | TP105-0.4-0.5 | 3 | 10 | - | - |
| 035 | TP107-0.1-0.2 | 3 | 10 | - | - |
| 036 | TP107-0.5-0.6 | 3 | 10 | 1 | 1 |
| 037 | TP107-1.1-1.2 | - | - | 1 | 1 |
| 038 | TP122-0.1-0.5 | 3 | 10 | 1 | 1 |
| 039 | TP122-0.8-1.0 | - | - | 1 | 1 |
| 041 | TP123-0.1-0.4 | 3 | 10 | 1 | 1 |
| 042 | TP123-0.4-0.7 | - | - | 1 | 1 |
| 043 | TP126-0.1-0.4 | 3 | 10 | 1 | 1 |
| 044 | TP126-0.4-0.6 | - | - | 1 | 1 |
| 045 | TP125-0.1-0.3 | - | - | 1 | 1 |
| 046 | TP125-0.4-0.8 | - | - | 1 | 1 |
| 047 | TP121-0.1-0.3 | 3 | 10 | - | - |
| 048 | TP121-0.3-0.5 | 3 | 10 | - | - |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Fibre Identification in soil | Gravimetric Determination of Asbestos in Soil | Mercury in Soil | Moisture Content |
|---|---|---|---|---|---|
| 049 | TP121-0.8-1.0 | - | - | 1 | 1 |
| 050 | TP120-0.3-0.4 | 3 | 10 | - | 1 |
| 051 | TP129-0.1-0.5 | 3 | 10 | 1 | 1 |
| 052 | TP129-0.5-1.0 | - | - | 1 | 1 |
| 053 | TP128-0.1-0.4 | 3 | 10 | 1 | 1 |
| 054 | TP128-0.4-1.0 | - | - | 1 | 1 |
| 055 | TP130-0.1-0.6 | 3 | 10 | 1 | 1 |
| 056 | TP130-0.6-1.0 | - | - | 1 | 1 |
| 057 | TP131-0.1-0.5 | 3 | 10 | 1 | 1 |
| 058 | TP131-0.5-1.1 | - | - | 1 | 1 |
| 059 | TP127-0.1-0.3 | 3 | 10 | 1 | 1 |
| 060 | TP127-0.4-0.9 | 3 | 10 | - | - |
| 061 | TP127-0.9-1.2 | - | - | 1 | 1 |
| 062 | TP132-0.2-0.3 | 3 | 10 | 1 | 1 |
| 063 | TP132-0.5-0.6 | - | - | 1 | 1 |
| 064 | TP108-0.2-0.5 | 3 | 10 | 1 | 1 |
| 065 | TP108-0.6-1.0 | - | - | 1 | 1 |
| 066 | TP102-0.1-0.5 | 3 | 10 | - | 1 |
| 067 | QA03 | - | - | 1 | 1 |
| 068 | QA04 | - | - | 1 | 1 |
| 069 | QA06 | - | - | 1 | 1 |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Moisture Content |
|---|---|---|
| 076 | Trip Blank | 1 |
| 078 | Trip Blank | 1 |
| 080 | Trip Blank | 1 |

CONTINUED OVERLEAF

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Conductivity and TDS by Calculation - Soil | Exchangeable Cations and Cation Exchange Capacity | Particle sizing of soils <75µm by hydrometer | Particle sizing of soils by sieving | pH in soil (1:5) | TOC in Soil |
|---|---|---|---|---|---|---|---|
| 002 | TP111-0.4-0.5 | - | 13 | 1 | 2 | 1 | 2 |
| 008 | TP110-0.6-0.7 | 1 | - | - | - | 1 | - |
| 017 | TP114-0.1-0.2 | - | 13 | 1 | 2 | 1 | 2 |

CONTINUED OVERLEAF

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Conductivity and TDS by Calculation - Soil | pH in soil (1:5) |
|---|---|---|---|
| 042 | TP123-0.4-0.7 | 1 | 1 |

CONTINUED OVERLEAF

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SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Conductivity and TDS by Calculation - Soil | Exchangeable Cations and Cation Exchange Capacity | Particle sizing of soils <75µm by hydrometer | Particle sizing of soils by sieving | pH in soil (1:5) | TOC in Soil |
|---|---|---|---|---|---|---|---|
| 058 | TP131-0.5-1.1 | 1 | - | - | - | 1 | - |
| 063 | TP132-0.5-0.6 | - | 13 | 1 | 2 | 1 | 2 |
| 065 | TP108-0.6-1.0 | 1 | - | - | - | 1 | - |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Water | PAH (Polynuclear Aromatic Hydrocarbons) in Water | PCBs in Water | Trace Metals (Dissolved) in Water by ICPMS | TRH (Total Recoverable Hydrocarbons) in Water | VOCs in Water | Volatile Petroleum Hydrocarbons in Water |
|---|---|---|---|---|---|---|---|---|
| 070 | Rinsate 01 | 25 | 22 | 9 | 7 | 9 | 77 | 7 |
| 071 | Rinsate 02 | 25 | 22 | 9 | 7 | 9 | 11 | 7 |
| 072 | Rinsate 03 | 25 | 22 | 9 | 7 | 9 | 77 | 7 |

CONTINUED OVERLEAF

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CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Water | PAH (Polynuclear Aromatic Hydrocarbons) in Water | PCBs in Water | Trace Metals (Dissolved) in Water by ICPMS | TRH (Total Recoverable Hydrocarbons) in Water | VOCs in Water | Volatile Petroleum Hydrocarbons in Water |
|---|---|---|---|---|---|---|---|---|
| 073 | Rinsate 04 | 25 | 22 | 9 | 7 | 9 | 11 | 7 |
| 074 | Rinsate 05 | 25 | 22 | 9 | 7 | 9 | 11 | 7 |

CONTINUED OVERLEAF

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Fibre ID in bulk materials |
|---|---|---|
| 003 | TP111-0.4-0.5-ACM | 2 |
| 006 | TP112-0.3-0.4 ACM | 2 |
| 016 | TP115-0.3-0.5-ACM | 2 |

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Fibre ID in bulk materials |
|---|---|---|
| 026 | TP119-ACM | 2 |
| 040 | TP122-0.1-0.5-ACM | 2 |

CONTINUED OVERLEAF

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# SAMPLE RECEIPT ADVICE

SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Mercury (dissolved) in Water |
|---|---|---|
| 070 | Rinsate 01 | 1 |
| 071 | Rinsate 02 | 1 |
| 072 | Rinsate 03 | 1 |

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SE275864

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Mercury (dissolved) in Water |
|---|---|---|
| 073 | Rinsate 04 | 1 |
| 074 | Rinsate 05 | 1 |

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smec an ASX company

# CHAIN OF CUSTODY FORM

SMEC Office: North Sydney

| | | | |
|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | LABORATORY: | SGS Australia |
| SITE LOCATION: | Bankstown | CONTACT PERSON: | Elsa Miguel Barritt |
| PROJECT No: | 30013640 | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 |
| CLIENT: | Health Infrastructure NSW | LABORATORY QUOTE No.: | SMEC SGS 2024 PL |
| PROJECT MANAGER/ TECHNICAL LEAD: Manuel Fernandez | CONTACT PH: 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard |
| SAMPLED BY: Harrison Wood | CONTACT PH: 0411 754 451 | DESPATCH COURIER (consignment reference): | |
| DATE(s) SAMPLED: 09/12/2024-11/12/2024 | RELINQUISHED BY: 1) Harrison Wood | 2) | 3) 4) |
| DATE/TIME OF DEPARTURE FROM SITE: 11/12/24 at 15:30pm | DATE/TIME: 11/12/2024 \| 5:00 PM | | |
| EMAIL REPORTS TO (default to PM/TL): harrison.wood@smec.com manuel.fernandez@smec.com | RECEIVED BY: B. Subaran | | |
| EMAIL INVOICE TO (default to PM/TL): manuel.fernandez@smec.com | DATE/TIME: 12/12/24 @11:35 | | |

E-MAILED 16/12/24 @ 9:48 am

SPECIAL LABORATORY INSTRUCTIONS:

Requested limits of reporting are: ■ STANDARD □ SPECIFIED IN QUOTATION □ SPECIFIED IN CoC (note: PM/TL to review) _____

Please ensure all samples are analysed within respective holding times. □ Note: Short holding times apply to some analytes.

SGS EHS Sydney COC

**SE275864**

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 1 | TP111-0.05-0.1 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 2 | TP111-0.4-0.5 | 9/12/2024 | Soil | 1 Jar, 2 Bags | 2 | X | | X | | | X | X | | | | | | |
| 3 | TP111-0.4-0.5-ACM | 9/12/2024 | Soil | 1 Bag | 1 | | X | | | | | | | | | | | |
| 4 | TP112-0.05-0.1 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 5 | TP112-0.3-0.4 | 9/12/2024 | Soil | 1 Jar, 2 Bags | 2 | X | | X | | | | | | | | | | |
| 6 | TP112-0.3-0.4 ACM | 9/12/2024 | Soil | 1 Jar, 2 Bags | 2 | | X | | | | | | | | | | | bag containing ACM fragments |
| | TP112-0.9-1.0 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 7 | TP110-0.1-0.2 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 8 | TP110-0.6-0.7 | 9/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | X | | | | | |
| 9 | TP110-0.1-0.8 | 9/12/2024 | Soil | 1 Bag | 1 | X | | | | | | | | | | | | |
| 10 | TP118-0.3-0.4 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | X | | | | | | | | | |
| | TP118-0.7-0.8 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 11 | TP113-0.3-0.4 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 12 | TP113-0.6-0.7 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 13 | TP113-1.0-1.1 | 9/12/2024 | Soil | 1 Jar | 1 | | | X | | X | | | | | | | | |
| 14 | TP115-0.3-0.4 | 9/12/2024 | Soil | 1 Jar, 2 Bags | 2 | X | | X | | | | | | | | | | |

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# CHAIN OF CUSTODY FORM

SMEC Office: North Sydney

| | | | | | |
|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | ~~DESPATCH COURIER (consignment reference):~~ | |

| | | | | | | |
|---|---|---|---|---|---|---|
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 11/12/24 at 15:30pm | DATE/TIME: | 11/12/2024 \| 5:00 PM | | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com<br>manuel.fernandez@smec.com | RECEIVED BY: | B. Bubaway | | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 12/12/24 @11:35 | | | |

SPECIAL LABORATORY INSTRUCTIONS:

Requested limits of reporting are: ■ STANDARD □ SPECIFIED IN QUOTATION □ SPECIFIED IN CoC (note: PM/TL to review) _____

Please ensure all samples are analysed within respective holding times. □ Note: Short holding times apply to some analytes.

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 15 | TP115-0.8-0.9 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| | TP115-1.3-1.4 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 16 | TP115-0.3-0.5-ACM | 9/12/2024 | Soil | 1 Bag | 1 | | X | | | | | | | | | | | bag containing ACM fragments |
| 17 | TP114-0.1-0.2 | 9/12/2024 | Soil | 1 Jar | 1 | | | X | | | X | | | | | | | |
| 18 | TP114-0.5-0.6 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 19 | TP114-1.0-1.1 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 20 | TP114-2.1-2.2 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 21 | TP117-0.1-0.2 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| | TP117-0.5-0.6 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 22 | TP116-0.1-0.2 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 23 | TP116-0.6--0.7 | 9/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | | | | | | |
| 24 | TP119-0.2-0.3 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 25 | TP119-0.8-0.9 | 9/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | | | | | | |
| 26 | TP119-ACM | 9/12/2024 | Soil | 1 Bag | 1 | | X | | | | | | | | | | | |
| 27 | TP109-0.2-0.3 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | X | | | | | | |
| | TP109-0.9-1.0 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |

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# CHAIN OF CUSTODY FORM

SMEC Office: North Sydney

| | | | | | | |
|---|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia | |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt | |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 | |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL | |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard | |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | ~~DESPATCH COURIER (consignment reference):~~ | | |
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 11/12/24 at 15:30pm | DATE/TIME: | 11/12/2024 \| 5:00 PM | | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com<br>manuel.fernandez@smec.com | RECEIVED BY: | | | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 12/12/24 @ 11:35 | | | |

SPECIAL LABORATORY INSTRUCTIONS:

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| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 28 | TP101-0.1-0.5 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| | TP101-1.0-1.2 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 29 | TP106-0.1-0.5 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | X | | | | | | |
| | TP106-0.8-1.0 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 30 | TP104-0.2-0.6 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | X | | | | | | | | | |
| | TP104-0.9-1.2 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 31 | TP103-0.1-0.2 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 32 | TP103-0.6-0.7 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| | TP103-1.3-1.5 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 33 | TP105-0.1-0.2 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 34 | TP105-0.4-0.5 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| | TP105-1.4-1.5 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| 35 | TP107-0.1-0.2 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 36 | TP107-0.5-0.6 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 37 | TP107-1.1-1.2 | 10/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | X | | | | | |
| 38 | TP122-0.1-0.5 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | X | | X | | | | | | |

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# CHAIN OF CUSTODY FORM

SMEC Office: North Sydney

| | | | | | | |
|---|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia | |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt | |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 | |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL | |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard | |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | ~~DESPATCH COURIER (consignment reference):~~ | | |
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 11/12/24 at 15:30pm | DATE/TIME: | 11/12/2024 \| 5:00 PM | | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com<br>manuel.fernandez@smec.com | RECEIVED BY: | P. Subraj | | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 12/12/24 @ 11:35 | | | |

SPECIAL LABORATORY INSTRUCTIONS:

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| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 39 | TP122-0.8-1.0 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 40 | TP122-0.1-0.5-ACM | 10/12/2024 | Soil | 1 Bag | 1 | | X | | | | | | | | | | | bag containing ACM fragments |
| 41 | TP123-0.1-0.4 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | X | | | | | | |
| 42 | TP123-0.4-0.7 | 10/12/2024 | Soil | 1 Jar | 1 | | | X | | X | | | X | | | | | |
| 43 | TP126-0.1-0.4 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 44 | TP126-0.4-0.6 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 45 | TP125-0.1-0.3 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 46 | TP125-0.4-0.8 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 47 | TP121-0.1-0.3 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 48 | TP121-0.3-0.5 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 49 | TP121-0.8-1.0 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 50 | TP120-0.3-0.4 | 10/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | X | | | | | | |
| 51 | TP129-0.1-0.5 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | X | | | | | | | | | |
| 52 | TP129-0.5-1.0 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 53 | TP128-0.1-0.4 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 54 | TP128-0.4-1.0 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |

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# CHAIN OF CUSTODY FORM

SMEC Office: North Sydney

| | | | | | |
|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | DESPATCH COURIER (consignment reference): | |
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) / 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 11/12/24 at 15:30pm | DATE/TIME: | 11/12/2024 \| 5:00 PM | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com<br>manuel.fernandez@smec.com | RECEIVED BY: | [signature] | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 12/12/24 @ 11.35 | | |

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| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 55 | TP130-0.1-0.6 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 56 | TP130-0.6-1.0 | 11/12/2024 | Soil | 1 Jar | 1 | | | X | | X | | | X | | | | | |
| 57 | TP131-0.1-0.5 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | X | | | | | | | | | |
| 58 | TP131-0.5-1.1 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 59 | TP127-0.1-0.3 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 60 | TP127-0.4-0.9 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | | | | | | | |
| 61 | TP127-0.9-1.2 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| 62 | TP132-0.2-0.3 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | X | | | | | | | | | | |
| 63 | TP132-0.5-0.6 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | X | X | | | | | | | |
| 64 | TP108-0.2-0.5 | 11/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | X | | | | | | | | | |
| 65 | TP108-0.6-1.0 | 11/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | X | | | | | |
| 66 | TP102-0.1-0.5 | 9/12/2024 | Soil | 1 Jar, 1 Bag | 2 | X | | | | | | X | | | | | | |
| | TP102-0.7-1.0 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA01 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA01-A | 9/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |

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# CHAIN OF CUSTODY FORM

SMEC Office: North Sydney

| | | | | | | |
|---|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia | |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt | |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 | |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL | |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard | |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | DESPATCH COURIER (consignment reference): | | |
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
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| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 12/12/24 @ 11:35 | | | |

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| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| | QA02 | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA02-A | 9/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| 67 | QA03 | 9/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | | | | | | |
| | QA03-A | 9/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| 68 | QA04 | 10/12/2024 | Soil | 1 Jar | 1 | | | X | | | | | | | | | | |
| | QA04-A | 10/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| | QA05 | 10/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA05-A | 10/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| 69 | QA06 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | X | | | | | | | | |
| | QA06-A | 11/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| | QA07 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA07-A | 11/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| | QA08 | 11/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | | | |
| | QA08-A | 11/12/2024 | Soil | 1 Jar | 1 | Send to Eurofins with attched CoC | | | | | | | | | | | | |
| 70 | Rinsate 01 | 9/12/2024 | Water | 5 Bottles | 5 | | | X | | | | X | | | | | | |

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## CHAIN OF CUSTODY FORM

**SMEC Office:** North Sydney

| | | | | | | |
|---|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia | |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt | |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 | |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL | |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard | |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | DESPATCH COURIER (consignment reference): | | |
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 11/12/24 at 15:30pm | DATE/TIME: | 11/12/2024 \| 5:00 PM | | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com<br>manuel.fernandez@smec.com | RECEIVED BY: | P. Subarey | | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 12/12/24 @11:35 | | | |

SPECIAL LABORATORY INSTRUCTIONS:

Requested limits of reporting are: ■ STANDARD □ SPECIFIED IN QUOTATION □ SPECIFIED IN CoC (note: PM/TL to review) _____

Please ensure all samples are analysed within respective holding times. □ Note: Short holding times apply to some analytes.

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 71 | Rinsate 02 | 9/12/2024 | Water | 5 Bottles | 5 | | | X | | | | | | | | | | |
| 72 | Rinsate 03 | 10/12/2024 | Water | 5 Bottles | 5 | | | X | | | | X | | | | | | |
| 73 | Rinsate 04 | 10/12/2024 | Water | 5 Bottles | 5 | | | X | | | | | | | | | | |
| 74 | Rinsate 05 | 11/12/2024 | Water | 5 Bottles | 5 | | | X | | | | | | | | | | |
| 75 | Trip Spike | 5/12/2024 | Soil | 1 Vial | 1 | | | | | | | | | | X | | | |
| 76 | Trip Blank | 5/12/2024 | Soil | 1 Vial | 1 | | | | | | | | | X | | | | |
| 77 | Trip Spike | 5/12/2024 | Soil | 1 Vial | 1 | | | | | | | | | | X | | | |
| 78 | Trip Blank | 5/12/2024 | Soil | 1 Vial | 1 | | | | | | | | | X | | | | |
| 79 | Trip Spike | 5/12/2024 | Soil | 1 Vial | 1 | | | | | | | | | | X | | | |
| 80 | Trip Blank | 5/12/2024 | Soil | 1 Vial | 1 | | | | | | | | | X | | | | |
| | | | | TOTAL | 104 | 50 | 5 | 35 | 5 | 15 | 3 | 7 | 5 | 3 | 3 | 15 | 0 | |

Common Abbreviations: S - Soil, W - Water, M - Material, UP - Unpreserved, P - Preserved, PM- Project Manager, TL - Technical Lead, LOR - Limits of reporting, CoC - Chain of custody

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 80 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE275864A R0** |
| Date Received | 6/1/2025 |
| Date Reported | 13/1/2025 |

## COMMENTS

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

## SIGNATORIES

**Bennet LO**
Senior Chemist

**Dong LIANG**
Metals/Inorganics Team Leader

**Ly Kim HA**
Organic Section Head

## TCLP (Toxicity Characteristic Leaching Procedure) for Organics/SVOC [AN006] Tested: 8/1/2025

| PARAMETER | UOM | LOR | TP111-0.4-0.5<br>SOIL<br>-<br>9/12/2024<br>SE275864A.002 |
|---|---|---|---|
| pH 1:20 | pH Units | - | **8.4** |
| pH 1:20 plus HCL | pH Units | - | **2.1** |
| Extraction Solution Used | No unit | - | **1** |
| Mass of Sample Used* | g | - | **25** |
| Volume of ExtractionSolution Used* | mL | - | **500** |
| pH TCLP after 18 hours | pH Units | - | **5.6** |

## PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract [AN420] Tested: 8/1/2025

| PARAMETER | UOM | LOR | TP111-0.4-0.5<br>SOIL<br>-<br>9/12/2024<br>SE275864A.002 |
|---|---|---|---|
| Naphthalene | µg/L | 0.1 | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | **0.2** |
| Anthracene | µg/L | 0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | **0.2** |
| Pyrene | µg/L | 0.1 | **0.3** |
| Benzo(a)anthracene | µg/L | 0.1 | **0.1** |
| Chrysene | µg/L | 0.1 | **0.2** |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | **0.1** |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | **0.2** |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | **0.1** |
| Total PAH (18)* | µg/L | 1 | **2** |

## TCLP (Toxicity Characteristic Leaching Procedure) for Metals [AN006] Tested: 8/1/2025

| PARAMETER | UOM | LOR | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864A.010 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864A.028 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864A.030 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864A.038 | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864A.041 |
|---|---|---|---|---|---|---|---|
| pH 1:20 | pH Units | - | 8.5 | 7.7 | 8.5 | 8.7 | 8.5 |
| pH 1:20 plus HCL | pH Units | - | 2.3 | 2.1 | 2.1 | 2.1 | 2.1 |
| Extraction Solution Used | No unit | - | 1 | 1 | 1 | 1 | 1 |
| Mass of Sample Used* | g | - | 13 | 13 | 13 | 13 | 13 |
| Volume of ExtractionSolution Used* | mL | - | 250 | 250 | 250 | 250 | 250 |
| pH TCLP after 18 hours | pH Units | - | 5.0 | 4.9 | 5.1 | 5.0 | 4.9 |

| PARAMETER | UOM | LOR | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864A.055 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864A.059 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864A.062 |
|---|---|---|---|---|---|
| pH 1:20 | pH Units | - | 9.1 | 8.5 | 7.7 |
| pH 1:20 plus HCL | pH Units | - | 2.1 | 2.1 | 2.1 |
| Extraction Solution Used | No unit | - | 1 | 1 | 1 |
| Mass of Sample Used* | g | - | 13 | 13 | 13 |
| Volume of ExtractionSolution Used* | mL | - | 250 | 250 | 250 |
| pH TCLP after 18 hours | pH Units | - | 5.0 | 5.0 | 4.9 |

## Metals in TCLP Extract by ICPOES [AN320] Tested: 10/1/2025

| PARAMETER | UOM | LOR | TP111-0.4-0.5 SOIL - 9/12/2024 SE275864A.002 | TP118-0.3-0.4 SOIL - 9/12/2024 SE275864A.010 | TP101-0.1-0.5 SOIL - 9/12/2024 SE275864A.028 | TP104-0.2-0.6 SOIL - 10/12/2024 SE275864A.030 | TP122-0.1-0.5 SOIL - 10/12/2024 SE275864A.038 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/L | 0.02 | - | - | **0.072** | - | - |
| Lead, Pb | mg/L | 0.02 | **0.13** | - | - | - | - |
| Nickel, Ni | mg/L | 0.005 | - | **0.12** | - | **0.14** | **0.22** |

| PARAMETER | UOM | LOR | TP123-0.1-0.4 SOIL - 10/12/2024 SE275864A.041 | TP130-0.1-0.6 SOIL - 11/12/2024 SE275864A.055 | TP127-0.1-0.3 SOIL - 11/12/2024 SE275864A.059 | TP132-0.2-0.3 SOIL - 11/12/2024 SE275864A.062 |
|---|---|---|---|---|---|---|
| Arsenic, As | mg/L | 0.02 | - | - | - | - |
| Lead, Pb | mg/L | 0.02 | - | - | - | **0.18** |
| Nickel, Ni | mg/L | 0.005 | **0.12** | **0.19** | **0.11** | <0.005 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN006 | Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311. |
| AN006 | Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05. |
| AN006 | Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05. |
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN320 | Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components . |
| AN320 | Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements . Reference APHA 3120 B. |
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |

FOOTNOTES

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

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

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

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

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

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

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

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

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

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or

# STATEMENT OF QA/QC PERFORMANCE

SE275864A R0

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 80 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE275864A R0** |
| Date Received | 06 Jan 2025 |
| Date Reported | 13 Jan 2025 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Extraction Date | PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract | 1 item |
| | TCLP (Toxicity Characteristic Leaching Procedure) for Organics/SVOC | 1 item |
| Analysis Date | TCLP (Toxicity Characteristic Leaching Procedure) for Metals | 8 items |
| | TCLP (Toxicity Characteristic Leaching Procedure) for Organics/SVOC | 1 item |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 10 Soil | Type of documentation received | Email |
| Date documentation received | 6/1/2024@12:09pm | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 7.3°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

# HOLDING TIME SUMMARY

SE275864A R0

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

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

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

## Metals in TCLP Extract by ICPOES

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864A.002 | LB334657 | 09 Dec 2024 | 06 Jan 2025 | 07 Jun 2025 | 10 Jan 2025 | 07 Jun 2025 | 10 Jan 2025 |
| TP118-0.3-0.4 | SE275864A.010 | LB334657 | 09 Dec 2024 | 06 Jan 2025 | 07 Jun 2025 | 10 Jan 2025 | 07 Jun 2025 | 10 Jan 2025 |
| TP101-0.1-0.5 | SE275864A.028 | LB334657 | 09 Dec 2024 | 06 Jan 2025 | 07 Jun 2025 | 10 Jan 2025 | 07 Jun 2025 | 10 Jan 2025 |
| TP104-0.2-0.6 | SE275864A.030 | LB334657 | 10 Dec 2024 | 06 Jan 2025 | 08 Jun 2025 | 10 Jan 2025 | 08 Jun 2025 | 10 Jan 2025 |
| TP122-0.1-0.5 | SE275864A.038 | LB334657 | 10 Dec 2024 | 06 Jan 2025 | 08 Jun 2025 | 10 Jan 2025 | 08 Jun 2025 | 10 Jan 2025 |
| TP123-0.1-0.4 | SE275864A.041 | LB334657 | 10 Dec 2024 | 06 Jan 2025 | 08 Jun 2025 | 10 Jan 2025 | 08 Jun 2025 | 10 Jan 2025 |
| TP130-0.1-0.6 | SE275864A.055 | LB334657 | 11 Dec 2024 | 06 Jan 2025 | 09 Jun 2025 | 10 Jan 2025 | 09 Jun 2025 | 10 Jan 2025 |
| TP127-0.1-0.3 | SE275864A.059 | LB334657 | 11 Dec 2024 | 06 Jan 2025 | 09 Jun 2025 | 10 Jan 2025 | 09 Jun 2025 | 10 Jan 2025 |
| TP132-0.2-0.3 | SE275864A.062 | LB334657 | 11 Dec 2024 | 06 Jan 2025 | 09 Jun 2025 | 10 Jan 2025 | 09 Jun 2025 | 10 Jan 2025 |

## PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864A.002 | LB334616 | 09 Dec 2024 | 06 Jan 2025 | 30 Dec 2024 | 08 Jan 2025† | 17 Feb 2025 | 10 Jan 2025 |

## TCLP (Toxicity Characteristic Leaching Procedure) for Metals

Method: ME-(AU)-[ENV]AN006

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP118-0.3-0.4 | SE275864A.010 | LB334614 | 09 Dec 2024 | 06 Jan 2025 | 07 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP101-0.1-0.5 | SE275864A.028 | LB334614 | 09 Dec 2024 | 06 Jan 2025 | 07 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP104-0.2-0.6 | SE275864A.030 | LB334614 | 10 Dec 2024 | 06 Jan 2025 | 08 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP122-0.1-0.5 | SE275864A.038 | LB334614 | 10 Dec 2024 | 06 Jan 2025 | 08 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP123-0.1-0.4 | SE275864A.041 | LB334614 | 10 Dec 2024 | 06 Jan 2025 | 08 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP130-0.1-0.6 | SE275864A.055 | LB334614 | 11 Dec 2024 | 06 Jan 2025 | 09 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP127-0.1-0.3 | SE275864A.059 | LB334614 | 11 Dec 2024 | 06 Jan 2025 | 09 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |
| TP132-0.2-0.3 | SE275864A.062 | LB334614 | 11 Dec 2024 | 06 Jan 2025 | 09 Jun 2025 | 08 Jan 2025 | 12 Jan 2025 | 13 Jan 2025† |

## TCLP (Toxicity Characteristic Leaching Procedure) for Organics/SVOC

Method: ME-(AU)-[ENV]AN006

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| TP111-0.4-0.5 | SE275864A.002 | LB334613 | 09 Dec 2024 | 06 Jan 2025 | 23 Dec 2024 | 08 Jan 2025† | 12 Jan 2025 | 13 Jan 2025† |

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

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

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | TP111-0.4-0.5 | SE275864A.002 | % | 40 - 130% | 93 |
| d14-p-terphenyl (Surrogate) | TP111-0.4-0.5 | SE275864A.002 | % | 40 - 130% | 94 |
| d5-nitrobenzene (Surrogate) | TP111-0.4-0.5 | SE275864A.002 | % | 40 - 130% | 97 |

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

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

### Metals in TCLP Extract by ICPOES

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB334657.001 | Arsenic, As | mg/L | 0.02 | <0.020 |
| | Lead, Pb | mg/L | 0.02 | <0.02 |
| | Nickel, Ni | mg/L | 0.005 | <0.005 |

### PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334616.001 | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | Acenaphthene | µg/L | 0.1 | <0.1 |
| | | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | | Anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | | Chrysene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Fluoranthene | µg/L | 0.1 | <0.1 |
| | | Fluorene | µg/L | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Naphthalene | µg/L | 0.1 | <0.1 |
| | | Phenanthrene | µg/L | 0.1 | <0.1 |
| | | Pyrene | µg/L | 0.1 | <0.1 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | % | - | 88 |
| | | d14-p-terphenyl (Surrogate) | % | - | 108 |
| | | d5-nitrobenzene (Surrogate) | % | - | 104 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

| Original | Duplicate | Parameter | Units | LOR |
|---|---|---|---|---|

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Metals in TCLP Extract by ICPOES

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB334657.002 | Arsenic, As | mg/L | 0.02 | 0.52 | 0.5 | 80 - 120 | 103 |
| | Lead, Pb | mg/L | 0.02 | 0.50 | 0.5 | 80 - 120 | 100 |
| | Nickel, Ni | mg/L | 0.005 | 0.51 | 0.5 | 80 - 120 | 102 |

## PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334616.002 | | Acenaphthene | µg/L | 0.1 | 42 | 40 | 60 - 140 | 104 |
| | | Acenaphthylene | µg/L | 0.1 | 42 | 40 | 60 - 140 | 105 |
| | | Anthracene | µg/L | 0.1 | 41 | 40 | 60 - 140 | 103 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 43 | 40 | 60 - 140 | 107 |
| | | Fluoranthene | µg/L | 0.1 | 41 | 40 | 60 - 140 | 102 |
| | | Naphthalene | µg/L | 0.1 | 39 | 40 | 60 - 140 | 98 |
| | | Phenanthrene | µg/L | 0.1 | 42 | 40 | 60 - 140 | 106 |
| | | Pyrene | µg/L | 0.1 | 46 | 40 | 60 - 140 | 114 |
| | Surrogates | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.6 | 0.5 | 40 - 130 | 119 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.6 | 0.5 | 40 - 130 | 118 |
| | | d5-nitrobenzene (Surrogate) | µg/L | - | 0.6 | 0.5 | 40 - 130 | 111 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

# MATRIX SPIKE DUPLICATES

SE275864A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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

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

# SAMPLE RECEIPT ADVICE

SE275864A

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 80 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Mon 6/1/2025 |
| Report Due | Mon 13/1/2025 |
| SGS Reference | **SE275864A** |

## SUBMISSION DETAILS

This is to confirm that 80 samples were received on Monday 6/1/2025. Results are expected to be ready by COB Monday 13/1/2025. Please quote SGS reference SE275864A when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Sample counts by matrix | 10 Soil | Type of documentation received | Email |
| Date documentation received | 6/1/2024@12:09pm | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 7.3°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

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

## COMMENTS

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# SAMPLE RECEIPT ADVICE

SE275864A

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Metals in TCLP Extract by ICPOES | PAH (Polynuclear Aromatic Hydrocarbons) in TCLP | TCLP (Toxicity Characteristic Leaching | TCLP (Toxicity Characteristic Leaching |
|---|---|---|---|---|---|
| 002 | TP111-0.4-0.5 | 1 | 22 | - | 6 |
| 010 | TP118-0.3-0.4 | 1 | - | 6 | - |

CONTINUED OVERLEAF

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

# SAMPLE RECEIPT ADVICE

SE275864A

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Metals in TCLP Extract by ICPOES | TCLP (Toxicity Characteristic Leaching |
|---|---|---|---|
| 028 | TP101-0.1-0.5 | 1 | 6 |
| 030 | TP104-0.2-0.6 | 1 | 6 |
| 038 | TP122-0.1-0.5 | 1 | 6 |
| 041 | TP123-0.1-0.4 | 1 | 6 |

CONTINUED OVERLEAF

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

# SAMPLE RECEIPT ADVICE

SE275864A

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Metals in TCLP Extract by ICPOES | TCLP (Toxicity Characteristic Leaching |
|---|---|---|---|
| 055 | TP130-0.1-0.6 | 1 | 6 |
| 059 | TP127-0.1-0.3 | 1 | 6 |
| 062 | TP132-0.2-0.3 | 2 | 6 |

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

Hi GBS team.

Please book this in as an A job, standard TAT.
Thanks.

**Matthew Tyler**
**Industries & Environment**
Client Services Officer

***Important Information *** SGS Sydney will be **closed Public Holidays** – **Shut Down Period** Thursday 2nd Jan to Friday 10th Jan 2024.
**Please Note:** Skeleton staff on site to accept samples and to conduct short holding time analysis (No Fast Turnarounds during this period).
**Resume Normal trading hours**: **Monday 13th of January 2025.** If you have any concerns regarding your projects, please feel free to contact us.

**SGS Australia Pty Ltd**
Unit 16, 33 Maddox St
Alexandria NSW 2015

Phone: +61 2 8594 0400
Email: matthew.tyler@sgs.com
Visit: https://www.sgs.com/en-au

Reply Reply all Forward
**From:** Manuel FERNANDEZ <Manuel.Fernandez@smec.com>
**Sent:** Monday, January 6, 2025 12:09 PM
**To:** Miguel Barritt, Elsa (Alexandria) <Elsa.MiguelBarritt@sgs.com>; AU.Environmental.Sydney, AU (Sydney) <Au.Environmental.Sydney@sgs.com>
**Cc:** Harrison WOOD <Harrison.Wood@smec.com>
**Subject:** [EXTERNAL] Additional Analysis - batch SE275864

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi Elsa,

We would like to request extra analysis of soil samples from Batch SE275864 as follows on standard turnaround:

| Sample ID | Analysis |
|---|---|
| TP101-0.1-0.5 | TCLP Arsenic |
| TP111-0.4-0.5 | TCLP PAH and lead |
| TP132-0.2-0.3 | TCLP Lead |

| | |
|---|---|
| TP104-0.2-0.6 | TCLP Nickel |
| TP118-0.3-0.4 | TCLP Nickel |
| TP122-0.1-0.5 | TCLP Nickel |
| TP123-0.1-0.4 | TCLP Nickel |
| TP127-0.1-0.3 | TCLP Nickel |
| TP130-0.1-0.6 | TCLP Nickel |
| TP132-0.2-0.3 | TCLP Nickel |

Regards

**Manuel Fernandez**
Technical Principal - Environment
**M** +61 401 106 772 **T** +61 2 4243 4405 **E** Manuel.Fernandez@smec.com
Dharawal Country, Level 2, 6-8 Regent Street, Wollongong, NSW, 2520, Australia
**engineering positive change | smec.com**

an SNC company

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.

**We look a little different - find out why**

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# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE276220 R0** |
| Date Received | 20/12/2024 |
| Date Reported | 2/1/2025 |

## COMMENTS

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

## SIGNATORIES

**Bennet LO**
Senior Chemist

**Shane MCDERMOTT**
Laboratory Manager

**Teresa NGUYEN**
Organic Chemist

**Ying Ying ZHANG**
Laboratory Technician

## VOC's in Soil [AN433] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6 SOIL - 19/12/2024 SE276220.001 | BH102-3.0-3.2 SOIL - 19/12/2024 SE276220.002 |
|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 |
| Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | <0.1 |
| Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | <1 | <1 |
| Chloromethane | mg/kg | 1 | <1 | <1 |
| Vinyl chloride (Chloroethene) | mg/kg | 0.1 | <0.1 | <0.1 |
| Bromomethane | mg/kg | 1 | <1 | <1 |
| Chloroethane | mg/kg | 1 | <1 | <1 |
| Trichlorofluoromethane | mg/kg | 1 | <1 | <1 |
| Acetone (2-propanone) | mg/kg | 10 | <10 | <10 |
| Iodomethane | mg/kg | 5 | <5 | <5 |
| 1,1-dichloroethene | mg/kg | 0.1 | <0.1 | <0.1 |
| Acrylonitrile | mg/kg | 0.1 | <0.1 | <0.1 |
| Dichloromethane (Methylene chloride) | mg/kg | 0.5 | <0.5 | <0.5 |
| Allyl chloride | mg/kg | 0.1 | <0.1 | <0.1 |
| Carbon disulfide | mg/kg | 0.5 | <0.5 | <0.5 |
| trans-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | <0.1 |
| MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,1-dichloroethane | mg/kg | 0.1 | <0.1 | <0.1 |
| Vinyl acetate* | mg/kg | 10 | <10 | <10 |
| cis-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | <0.1 |
| Bromochloromethane | mg/kg | 0.1 | <0.1 | <0.1 |
| Chloroform (THM) | mg/kg | 0.1 | <0.1 | <0.1 |
| 2,2-dichloropropane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2-dichloroethane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,1,1-trichloroethane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,1-dichloropropene | mg/kg | 0.1 | <0.1 | <0.1 |
| Carbon tetrachloride | mg/kg | 0.1 | <0.1 | <0.1 |
| Dibromomethane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2-dichloropropane | mg/kg | 0.1 | <0.1 | <0.1 |
| Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | <0.1 | <0.1 |
| 2-nitropropane | mg/kg | 10 | <10 | <10 |
| Bromodichloromethane (THM) | mg/kg | 0.1 | <0.1 | <0.1 |
| MIBK (4-methyl-2-pentanone) | mg/kg | 1 | <1 | <1 |
| cis-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | <0.1 |
| trans-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,1,2-trichloroethane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,3-dichloropropane | mg/kg | 0.1 | <0.1 | <0.1 |
| Dibromochloromethane (THM) | mg/kg | 0.1 | <0.1 | <0.1 |
| 2-hexanone (MBK) | mg/kg | 5 | <5 | <5 |
| 1,2-dibromoethane (EDB) | mg/kg | 0.1 | <0.1 | <0.1 |
| Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | <0.1 |
| Chlorobenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| Bromoform (THM) | mg/kg | 0.1 | <0.1 | <0.1 |
| Styrene (Vinyl benzene) | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2,3-trichloropropane | mg/kg | 0.1 | <0.1 | <0.1 |
| trans-1,4-dichloro-2-butene | mg/kg | 1 | <1 | <1 |
| Isopropylbenzene (Cumene) | mg/kg | 0.1 | <0.1 | <0.1 |
| Bromobenzene | mg/kg | 0.1 | <0.1 | <0.1 |

## VOC's in Soil [AN433] Tested: 23/12/2024 (continued)

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| n-propylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| 2-chlorotoluene | mg/kg | 0.1 | <0.1 | <0.1 |
| 4-chlorotoluene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,3,5-trimethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| tert-butylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2,4-trimethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| sec-butylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,3-dichlorobenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,4-dichlorobenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| p-isopropyltoluene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2-dichlorobenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| n-butylbenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2,4-trichlorobenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| Hexachlorobutadiene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1,2,3-trichlorobenzene | mg/kg | 0.1 | <0.1 | <0.1 |
| Total VOC* | mg/kg | 24 | <24 | <24 |
| Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | <3.0 | <3.0 |
| Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | <1.8 |
| Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | <1.8 |
| Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | <3.0 | <3.0 |
| MEK (2-butanone) | mg/kg | 10 | <10 | <10 |

## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | <0.8 |

## OC Pesticides in Soil [AN420] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 |
| Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 |
| Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | 0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.1 | <0.1 | <0.1 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 |
| Endrin aldehyde | mg/kg | 0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 |
| Endrin ketone | mg/kg | 0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 |
| Total OC Pesticides | mg/kg | 0.1 | <0.1 | <0.1 |
| Total OC VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 |
| Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | <0.1 | <0.1 |

## PCBs in Soil [AN420] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.1 | <0.1 | <0.1 |
| Arochlor 1232 | mg/kg | 0.1 | <0.1 | <0.1 |
| Arochlor 1242 | mg/kg | 0.1 | <0.1 | <0.1 |
| Arochlor 1248 | mg/kg | 0.1 | <0.1 | <0.1 |
| Arochlor 1254 | mg/kg | 0.1 | <0.1 | <0.1 |
| Arochlor 1260 | mg/kg | 0.1 | <0.1 | <0.1 |
| Total PCBs | mg/kg | 0.1 | <0.1 | <0.1 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | **4** | **6** |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | **11** | **11** |
| Copper, Cu | mg/kg | 0.5 | **36** | **36** |
| Lead, Pb | mg/kg | 1 | **16** | **18** |
| Nickel, Ni | mg/kg | 0.5 | **21** | **22** |
| Zinc, Zn | mg/kg | 2 | **85** | **79** |

## Mercury in Soil [AN312] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | **0.06** |

## Moisture Content [AN002] Tested: 23/12/2024

| PARAMETER | UOM | LOR | BH102-1.4-1.6<br>SOIL<br>-<br>19/12/2024<br>SE276220.001 | BH102-3.0-3.2<br>SOIL<br>-<br>19/12/2024<br>SE276220.002 |
|---|---|---|---|---|
| % Moisture | %w/w | 1 | **14.9** | **9.9** |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water. |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C. |
| AN040 | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8. |
| AN312 | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid , mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser . Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500 |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene ( from VOC method AN433) where available. |
| AN403 | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents . |
| AN403 | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B. |
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |
| AN420 | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process ( Based on USEPA 3500C and 8270D). |
| AN433 | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

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# STATEMENT OF QA/QC PERFORMANCE

SE276220 R0

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE276220 R0** |
| Date Received | 20 Dec 2024 |
| Date Reported | 02 Jan 2025 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Duplicate | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | 1 item |
| Matrix Spike | TRH (Total Recoverable Hydrocarbons) in Soil | 3 items |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 2 Soil | Type of documentation received | COC |
| Date documentation received | 20/12/2024 | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 1.4°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

# HOLDING TIME SUMMARY

SE276220 R0

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

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

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

## Mercury in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334359 | 19 Dec 2024 | 20 Dec 2024 | 16 Jan 2025 | 23 Dec 2024 | 16 Jan 2025 | 30 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334359 | 19 Dec 2024 | 20 Dec 2024 | 16 Jan 2025 | 23 Dec 2024 | 16 Jan 2025 | 30 Dec 2024 |

## Moisture Content

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334341 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 28 Dec 2024 | 27 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334341 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 28 Dec 2024 | 27 Dec 2024 |

## OC Pesticides in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 27 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 27 Dec 2024 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 27 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 27 Dec 2024 |

## PCBs in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 30 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 30 Dec 2024 |

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334350 | 19 Dec 2024 | 20 Dec 2024 | 17 Jun 2025 | 23 Dec 2024 | 17 Jun 2025 | 30 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334350 | 19 Dec 2024 | 20 Dec 2024 | 17 Jun 2025 | 23 Dec 2024 | 17 Jun 2025 | 30 Dec 2024 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 27 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334327 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 01 Feb 2025 | 27 Dec 2024 |

## VOC's in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334332 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 02 Jan 2025 | 27 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334332 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 02 Jan 2025 | 27 Dec 2024 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH102-1.4-1.6 | SE276220.001 | LB334332 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 02 Jan 2025 | 27 Dec 2024 |
| BH102-3.0-3.2 | SE276220.002 | LB334332 | 19 Dec 2024 | 20 Dec 2024 | 02 Jan 2025 | 23 Dec 2024 | 02 Jan 2025 | 27 Dec 2024 |

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

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

### OC Pesticides in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 94 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 93 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 70 - 130% | 93 |
| | BH102-3.0-3.2 | SE276220.002 | % | 70 - 130% | 92 |
| d14-p-terphenyl (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 70 - 130% | 91 |
| | BH102-3.0-3.2 | SE276220.002 | % | 70 - 130% | 91 |
| d5-nitrobenzene (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 70 - 130% | 91 |
| | BH102-3.0-3.2 | SE276220.002 | % | 70 - 130% | 90 |

### PCBs in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| TCMX (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 94 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 93 |

### VOC's in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 84 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 90 |
| d4-1,2-dichloroethane (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 85 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 80 |
| d8-toluene (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 86 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 81 |

### Volatile Petroleum Hydrocarbons in Soil

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 84 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 90 |
| d4-1,2-dichloroethane (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 85 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 80 |
| d8-toluene (Surrogate) | BH102-1.4-1.6 | SE276220.001 | % | 60 - 130% | 86 |
| | BH102-3.0-3.2 | SE276220.002 | % | 60 - 130% | 81 |

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

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

## Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB334359.001 | Mercury | mg/kg | 0.05 | <0.05 |

## OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334327.001 | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | | Dieldrin | mg/kg | 0.1 | <0.1 |
| | | Endrin | mg/kg | 0.1 | <0.1 |
| | | Beta Endosulfan | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | | Endrin aldehyde | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endrin ketone | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 97 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334327.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | | Fluorene | mg/kg | 0.1 | <0.1 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 97 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 94 |
| | | d14-p-terphenyl (Surrogate) | % | - | 93 |

## PCBs in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB334327.001 | Arochlor 1016 | mg/kg | 0.1 | <0.1 |
| | Arochlor 1232 | mg/kg | 0.1 | <0.1 |
| | Arochlor 1242 | mg/kg | 0.1 | <0.1 |
| | Arochlor 1248 | mg/kg | 0.1 | <0.1 |
| | Arochlor 1254 | mg/kg | 0.1 | <0.1 |
| | Arochlor 1260 | mg/kg | 0.1 | <0.1 |

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

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

## PCBs in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334327.001 | | Total PCBs | mg/kg | 0.1 | <0.1 |
| | Surrogates | TCMX (Surrogate) | % | - | 97 |

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

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB334350.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2.0 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB334327.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |

## VOC's in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334332.001 | Fumigants | 2,2-dichloropropane | mg/kg | 0.1 | <0.1 |
| | | 1,2-dichloropropane | mg/kg | 0.1 | <0.1 |
| | | cis-1,3-dichloropropene | mg/kg | 0.1 | <0.1 |
| | | trans-1,3-dichloropropene | mg/kg | 0.1 | <0.1 |
| | | 1,2-dibromoethane (EDB) | mg/kg | 0.1 | <0.1 |
| | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | <1 |
| | | Chloromethane | mg/kg | 1 | <1 |
| | | Vinyl chloride (Chloroethene) | mg/kg | 0.1 | <0.1 |
| | | Bromomethane | mg/kg | 1 | <1 |
| | | Chloroethane | mg/kg | 1 | <1 |
| | | Trichlorofluoromethane | mg/kg | 1 | <1 |
| | | 1,1-dichloroethene | mg/kg | 0.1 | <0.1 |
| | | Iodomethane | mg/kg | 5 | <5 |
| | | Dichloromethane (Methylene chloride) | mg/kg | 0.5 | <0.5 |
| | | Allyl chloride | mg/kg | 0.1 | <0.1 |
| | | trans-1,2-dichloroethene | mg/kg | 0.1 | <0.1 |
| | | 1,1-dichloroethane | mg/kg | 0.1 | <0.1 |
| | | cis-1,2-dichloroethene | mg/kg | 0.1 | <0.1 |
| | | Bromochloromethane | mg/kg | 0.1 | <0.1 |
| | | 1,2-dichloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,1,1-trichloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,1-dichloropropene | mg/kg | 0.1 | <0.1 |
| | | Carbon tetrachloride | mg/kg | 0.1 | <0.1 |
| | | Dibromomethane | mg/kg | 0.1 | <0.1 |
| | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | <0.1 |
| | | 1,1,2-trichloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,3-dichloropropane | mg/kg | 0.1 | <0.1 |
| | | Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | <0.1 |
| | | 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | <0.1 |
| | | 1,2,3-trichloropropane | mg/kg | 0.1 | <0.1 |
| | | trans-1,4-dichloro-2-butene | mg/kg | 1 | <1 |
| | | 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | <0.1 |
| | | Hexachlorobutadiene | mg/kg | 0.1 | <0.1 |
| | Halogenated Aromatics | Chlorobenzene | mg/kg | 0.1 | <0.1 |
| | | Bromobenzene | mg/kg | 0.1 | <0.1 |
| | | 2-chlorotoluene | mg/kg | 0.1 | <0.1 |
| | | 4-chlorotoluene | mg/kg | 0.1 | <0.1 |
| | | 1,3-dichlorobenzene | mg/kg | 0.1 | <0.1 |

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

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

## VOC's in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334332.001 | Halogenated Aromatics | 1,4-dichlorobenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2-dichlorobenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2,4-trichlorobenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2,3-trichlorobenzene | mg/kg | 0.1 | <0.1 |
| | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | <0.1 |
| | | Toluene | mg/kg | 0.1 | <0.1 |
| | | Ethylbenzene | mg/kg | 0.1 | <0.1 |
| | | m/p-xylene | mg/kg | 0.2 | <0.2 |
| | | Styrene (Vinyl benzene) | mg/kg | 0.1 | <0.1 |
| | | o-xylene | mg/kg | 0.1 | <0.1 |
| | | Isopropylbenzene (Cumene) | mg/kg | 0.1 | <0.1 |
| | | n-propylbenzene | mg/kg | 0.1 | <0.1 |
| | | 1,3,5-trimethylbenzene | mg/kg | 0.1 | <0.1 |
| | | tert-butylbenzene | mg/kg | 0.1 | <0.1 |
| | | 1,2,4-trimethylbenzene | mg/kg | 0.1 | <0.1 |
| | | sec-butylbenzene | mg/kg | 0.1 | <0.1 |
| | | p-isopropyltoluene | mg/kg | 0.1 | <0.1 |
| | | n-butylbenzene | mg/kg | 0.1 | <0.1 |
| | Nitrogenous Compounds | Acrylonitrile | mg/kg | 0.1 | <0.1 |
| | | 2-nitropropane | mg/kg | 10 | <10 |
| | Oxygenated Compounds | Acetone (2-propanone) | mg/kg | 10 | <10 |
| | | MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | <0.1 |
| | | Vinyl acetate* | mg/kg | 10 | <10 |
| | | MIBK (4-methyl-2-pentanone) | mg/kg | 1 | <1 |
| | | 2-hexanone (MBK) | mg/kg | 5 | <5 |
| | Polycyclic VOCs | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 |
| | Sulphonated | Carbon disulfide | mg/kg | 0.5 | <0.5 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 95 |
| | | d8-toluene (Surrogate) | % | - | 98 |
| | | Bromofluorobenzene (Surrogate) | % | - | 105 |
| | Totals | Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 |
| | | Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 |
| | | Total BTEX* | mg/kg | 0.6 | <0.6 |
| | Trihalomethanes | Chloroform (THM) | mg/kg | 0.1 | <0.1 |
| | | Bromodichloromethane (THM) | mg/kg | 0.1 | <0.1 |
| | | Dibromochloromethane (THM) | mg/kg | 0.1 | <0.1 |
| | | Bromoform (THM) | mg/kg | 0.1 | <0.1 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB334332.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 95 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Mercury in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276224.003 | LB334359.014 | Mercury | mg/kg | 0.05 | 0.071125444 | 0.0774244660 | 97 | 8 |
| SE276224.012 | LB334359.024 | Mercury | mg/kg | 0.05 | 0.031022912 | 10.0282069270 | 199 | 0 |

## Moisture Content

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276224.003 | LB334341.011 | % Moisture | %w/w | 1 | 9.714889123 | 58.8307440719 | 41 | 10 |
| SE276224.012 | LB334341.021 | % Moisture | %w/w | 1 | 9.341199606 | 610.5004101722 | 40 | 12 |

## OC Pesticides in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276224.011 | LB334327.026 | Alpha BHC | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | 0.000784296 | 0.0008168943 | 200 | 0 |
| | | Beta BHC | mg/kg | 0.1 | 0.004266826 | 0 | 200 | 0 |
| | | Lindane (gamma BHC) | mg/kg | 0.1 | 0.004279637 | 7 0 | 200 | 0 |
| | | Delta BHC | mg/kg | 0.1 | 0.004563022 | 7 0 | 200 | 0 |
| | | Heptachlor | mg/kg | 0.1 | 0.000505250 | 0.0006623936 | 200 | 0 |
| | | Aldrin | mg/kg | 0.1 | 0.001218252 | 70.0014757366 | 200 | 0 |
| | | Heptachlor epoxide | mg/kg | 0.1 | 0.000265411 | 20.0003330170 | 200 | 0 |
| | | Gamma Chlordane | mg/kg | 0.1 | 0.001098411 | 50.0014988801 | 200 | 0 |
| | | Alpha Chlordane | mg/kg | 0.1 | 0.000437748 | 80.0005315400 | 200 | 0 |
| | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | 0.001536160 | 40.0020304202 | 200 | 0 |
| | | Alpha Endosulfan | mg/kg | 0.1 | 0.002363623 | 70.0036136784 | 200 | 0 |
| | | p,p'-DDE | mg/kg | 0.1 | 0.001822256 | 30.0018353829 | 200 | 0 |
| | | Dieldrin | mg/kg | 0.1 | 0.006664182 | 70.0080732298 | 200 | 0 |
| | | Endrin | mg/kg | 0.1 | 0.000562616 | 40.0067599441 | 200 | 0 |
| | | Beta Endosulfan | mg/kg | 0.1 | 0.000316277 | 80.0012042778 | 200 | 0 |
| | | p,p'-DDD | mg/kg | 0.1 | 0.001372865 | 60.0011336984 | 200 | 0 |
| | | Endrin aldehyde | mg/kg | 0.1 | 0.008652419 | 80.0019714718 | 200 | 0 |
| | | Endosulfan sulphate | mg/kg | 0.1 | 0 | 0.0004555648 | 200 | 0 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.000282956 | 90.0002618730 | 200 | 0 |
| | | Endrin ketone | mg/kg | 0.1 | 0.002201513 | 2 0 | 200 | 0 |
| | | Methoxychlor | mg/kg | 0.1 | 0.001541915 | 20.0006466497 | 200 | 0 |
| | | Mirex | mg/kg | 0.1 | 0.002582380 | 80.0039635220 | 200 | 0 |
| | | Total OC Pesticides | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.484380958 | 0.4123506475 | 30 | 16 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276224.003 | LB334327.014 | Naphthalene | mg/kg | 0.1 | 0.006503590 | 20.0069486558 | 200 | 0 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | 0.005456513 | 90.0066217882 | 200 | 0 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | 0.005038729 | 20.0059207455 | 200 | 0 |
| | | Acenaphthylene | mg/kg | 0.1 | 0.009020021 | 30.0163213982 | 200 | 0 |
| | | Acenaphthene | mg/kg | 0.1 | 0.001923855 | 90.0023183221 | 200 | 0 |
| | | Fluorene | mg/kg | 0.1 | 0.003333457 | 60.0093505463 | 200 | 0 |
| | | Phenanthrene | mg/kg | 0.1 | 0.053713960 | 20.1243884175 | 142 | 22 |
| | | Anthracene | mg/kg | 0.1 | 0.012473200 | 00.0292490988 | 200 | 0 |
| | | Fluoranthene | mg/kg | 0.1 | 0.101573477 | 30.1593573153 | 107 | 44 |
| | | Pyrene | mg/kg | 0.1 | 0.101183399 | 10.1350328944 | 115 | 29 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | 0.062515667 | 80.0773449334 | 173 | 0 |
| | | Chrysene | mg/kg | 0.1 | 0.070239563 | 10.0794559474 | 164 | 0 |
| | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.062054111 | 10.0665723829 | 185 | 0 |
| | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.052471361 | 60.0643963928 | 200 | 0 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 0.074946628 | 50.0826713699 | 157 | 0 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.058430949 | 00.0598854682 | 199 | 0 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | 0.011846872 | 60.0102035659 | 200 | 0 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.053069694 | 90.0531630652 | 200 | 0 |
| | | Carcinogenic PAHs, BaP TEQ <LOR=0* | mg/kg | 0.2 | 0 | 0 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276224.003 | LB334327.014 | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | mg/kg | 0.2 | 0.121 | 0.121 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | 0.242 | 0.242 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | 0.202756876 | 5.4187786273 | 62 | 70 ② |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.447641846 | 10.4673744466 | 30 | 4 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.452648457 | 50.4681772985 | 30 | 3 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.445120274 | 90.4636604469 | 30 | 4 |
| SE276224.011 | LB334327.026 | | Naphthalene | mg/kg | 0.1 | 0.004158666 | 60.0047591485 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | 0.013682289 | 50.0092794990 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | 0.010414786 | 80.0075941964 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | 0.011034983 | 90.0109113494 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | 0.001686502 | 80.0020617835 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | 0.003268567 | 80.0046398551 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | 0.072647358 | 00.0797364089 | 161 | 0 |
| | | | Anthracene | mg/kg | 0.1 | 0.012571420 | 50.0156550495 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | 0.106166707 | 80.1326953682 | 114 | 22 |
| | | | Pyrene | mg/kg | 0.1 | 0.110892428 | 30.1291731922 | 113 | 15 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0.065146664 | 50.0767660937 | 171 | 0 |
| | | | Chrysene | mg/kg | 0.1 | 0.078483021 | 20.0908979145 | 148 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.071393826 | 50.0634470458 | 178 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.063706077 | 60.0777492180 | 171 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 0.084113953 | 90.0862463840 | 147 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.070633694 | 10.0650584041 | 177 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | 0.011911231 | 50.0127334814 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.064290732 | 70.0570461576 | 195 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | mg/kg | 0.2 | 0.121 | 0.121 | 175 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | mg/kg | 0.3 | 0.242 | 0.242 | 134 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | 0.217059136 | 20.2618685605 | 72 | 19 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.468082614 | 00.3940036747 | 30 | 17 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.468046076 | 80.3988874732 | 30 | 16 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.467547379 | 40.3993244003 | 30 | 16 |

## PCBs in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276224.011 | LB334327.026 | | Arochlor 1016 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Total PCBs | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.484 | 0.412 | 30 | 16 |

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

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276224.003 | LB334350.014 | Arsenic, As | mg/kg | 1 | 4.626509443 | 04.0646240322 | 53 | 13 |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.148436870 | 80.1630137096 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 7.853536094 | 37.1654574193 | 37 | 9 |
| | | Copper, Cu | mg/kg | 0.5 | 24.69998609 | 922.6218367741 | 32 | 9 |
| | | Nickel, Ni | mg/kg | 0.5 | 9.569865784 | 68.5128885483 | 36 | 12 |
| | | Lead, Pb | mg/kg | 1 | 30.8703297 | 8628.794473709 | 33 | 7 |
| | | Zinc, Zn | mg/kg | 2 | 31.8850110 | 2455.509517741 | 33 | 11 |
| SE276224.012 | LB334350.024 | Arsenic, As | mg/kg | 1 | 7.0192405970 | 6.01824375 | 45 | 15 |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.0986189749 | 0.09927 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 13.503788742 | 29.8667945833 | 34 | 31 |
| | | Copper, Cu | mg/kg | 0.5 | 24.340191275 | 47.700006666 | 32 | 13 |
| | | Nickel, Ni | mg/kg | 0.5 | 12.361958619 | 86.541782916 | 33 | 29 |
| | | Lead, Pb | mg/kg | 1 | 25.0987628221 | 19.6416725 | 34 | 24 |
| | | Zinc, Zn | mg/kg | 2 | 56.516618258 | 04.7782708333 | 33 | 14 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| Original | Duplicate | Parameter | Units | LOR |
|---|---|---|---|---|

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276224.011 | LB334327.026 | | TRH C10-C14 | mg/kg | 20 | 4.4770252324 | 4.7426294820 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | 25.3343957503 | 33.970783532[illegible] | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | 22.0196547144 | 5.9346613545 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | 1.0326693227 | 1.3811420982 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | 0 | 0 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | 0 | 0 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 6.4594953519 | 6.1853917662 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 0 | 0 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | 13.4294820717 | 17.6339973439 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | 2.6284196547 | 1.8528552456 | 200 | 0 |

## VOC's in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276220.002 | LB334332.028 | Fumigants | 2,2-dichloropropane | mg/kg | 0.1 | <0.1 | 0.0008594005 | 200 | 0 |
| | | | 1,2-dichloropropane | mg/kg | 0.1 | <0.1 | 0.0004046549 | 200 | 0 |
| | | | cis-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | 0.0012181661 | 200 | 0 |
| | | | trans-1,3-dichloropropene | mg/kg | 0.1 | <0.1 | 0.0013412503 | 200 | 0 |
| | | | 1,2-dibromoethane (EDB) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | mg/kg | 1 | <1 | 0.0014645070 | 200 | 0 |
| | | | Chloromethane | mg/kg | 1 | <1 | 0.0913400010 | 200 | 0 |
| | | | Vinyl chloride (Chloroethene) | mg/kg | 0.1 | <0.1 | 0.0004429769 | 200 | 0 |
| | | | Bromomethane | mg/kg | 1 | <1 | 0 | 200 | 0 |
| | | | Chloroethane | mg/kg | 1 | <1 | 0 | 200 | 0 |
| | | | Trichlorofluoromethane | mg/kg | 1 | <1 | 0.0045050221 | 200 | 0 |
| | | | 1,1-dichloroethene | mg/kg | 0.1 | <0.1 | 0.0025063816 | 200 | 0 |
| | | | Iodomethane | mg/kg | 5 | <5 | 0.0435178576 | 200 | 0 |
| | | | Dichloromethane (Methylene chloride) | mg/kg | 0.5 | <0.5 | 0 | 200 | 0 |
| | | | Allyl chloride | mg/kg | 0.1 | <0.1 | 0.0042565335 | 200 | 0 |
| | | | trans-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | 0.0012924219 | 200 | 0 |
| | | | 1,1-dichloroethane | mg/kg | 0.1 | <0.1 | 0.0012153088 | 200 | 0 |
| | | | cis-1,2-dichloroethene | mg/kg | 0.1 | <0.1 | 0.0030530023 | 200 | 0 |
| | | | Bromochloromethane | mg/kg | 0.1 | <0.1 | 0.0007538625 | 200 | 0 |
| | | | 1,2-dichloroethane | mg/kg | 0.1 | <0.1 | 0.0046694235 | 200 | 0 |
| | | | 1,1,1-trichloroethane | mg/kg | 0.1 | <0.1 | 0.0008310789 | 200 | 0 |
| | | | 1,1-dichloropropene | mg/kg | 0.1 | <0.1 | 0.0012991481 | 200 | 0 |
| | | | Carbon tetrachloride | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Dibromomethane | mg/kg | 0.1 | <0.1 | 0.0010672054 | 200 | 0 |
| | | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | 1,1,2-trichloroethane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | 1,3-dichloropropane | mg/kg | 0.1 | <0.1 | 0.0352333451 | 200 | 0 |
| | | | Tetrachloroethene (Perchloroethylene,PCE) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | 1,1,1,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | 1,1,2,2-tetrachloroethane | mg/kg | 0.1 | <0.1 | 0.0024637102 | 200 | 0 |
| | | | 1,2,3-trichloropropane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | trans-1,4-dichloro-2-butene | mg/kg | 1 | <1 | 0 | 200 | 0 |
| | | | 1,2-dibromo-3-chloropropane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Hexachlorobutadiene | mg/kg | 0.1 | <0.1 | 0.0002163774 | 200 | 0 |
| | | Halogenated Aromatics | Chlorobenzene | mg/kg | 0.1 | <0.1 | 0.0033970445 | 200 | 0 |
| | | | Bromobenzene | mg/kg | 0.1 | <0.1 | 0.0006427148 | 200 | 0 |
| | | | 2-chlorotoluene | mg/kg | 0.1 | <0.1 | 0.0032908615 | 200 | 0 |
| | | | 4-chlorotoluene | mg/kg | 0.1 | <0.1 | 0.0001013229 | 200 | 0 |
| | | | 1,3-dichlorobenzene | mg/kg | 0.1 | <0.1 | 0.0017050680 | 200 | 0 |
| | | | 1,4-dichlorobenzene | mg/kg | 0.1 | <0.1 | 0.0001974742 | 200 | 0 |
| | | | 1,2-dichlorobenzene | mg/kg | 0.1 | <0.1 | 0.0010525235 | 200 | 0 |
| | | | 1,2,4-trichlorobenzene | mg/kg | 0.1 | <0.1 | 0.0001381064 | 200 | 0 |
| | | | 1,2,3-trichlorobenzene | mg/kg | 0.1 | <0.1 | 0.0002137195 | 200 | 0 |
| | | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | <0.1 | 0.0085301324 | 200 | 0 |
| | | | Toluene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Ethylbenzene | mg/kg | 0.1 | <0.1 | 0.0013470652 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | 0.0029536850 | 200 | 0 |
| | | | Styrene (Vinyl benzene) | mg/kg | 0.1 | <0.1 | 0.0006749054 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## VOC's in Soil (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276220.002 | LB334332.028 | Monocyclic | o-xylene | mg/kg | 0.1 | <0.1 | 0.0011756835 | 200 | 0 |
| | | Aromatic | Isopropylbenzene (Cumene) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | n-propylbenzene | mg/kg | 0.1 | <0.1 | 0.0019777848 | 200 | 0 |
| | | | 1,3,5-trimethylbenzene | mg/kg | 0.1 | <0.1 | 0.0001178846 | 200 | 0 |
| | | | tert-butylbenzene | mg/kg | 0.1 | <0.1 | 0.0011992775 | 200 | 0 |
| | | | 1,2,4-trimethylbenzene | mg/kg | 0.1 | <0.1 | 0.0006215333 | 200 | 0 |
| | | | sec-butylbenzene | mg/kg | 0.1 | <0.1 | 0.0034009198 | 200 | 0 |
| | | | p-isopropyltoluene | mg/kg | 0.1 | <0.1 | 0.0003382361 | 200 | 0 |
| | | | n-butylbenzene | mg/kg | 0.1 | <0.1 | 0.0068300301 | 200 | 0 |
| | | Nitrogenous | Acrylonitrile | mg/kg | 0.1 | <0.1 | 0.0042277810 | 200 | 0 |
| | | Compounds | 2-nitropropane | mg/kg | 10 | <10 | 0 | 200 | 0 |
| | | Oxygenated | Acetone (2-propanone) | mg/kg | 10 | <10 | 0 | 200 | 0 |
| | | Compounds | MtBE (Methyl-tert-butyl ether) | mg/kg | 0.1 | <0.1 | 0.0041563343 | 200 | 0 |
| | | | Vinyl acetate* | mg/kg | 10 | <10 | 0.0754745820 | 200 | 0 |
| | | | MEK (2-butanone) | mg/kg | 10 | <10 | 0 | 200 | 0 |
| | | | MIBK (4-methyl-2-pentanone) | mg/kg | 1 | <1 | 0 | 200 | 0 |
| | | | 2-hexanone (MBK) | mg/kg | 5 | <5 | 0 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | 0.0032170311 | 200 | 0 |
| | | Sulphonated | Carbon disulfide | mg/kg | 0.5 | <0.5 | 0.0023336300 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.0 | 8.7035868098 | 50 | 8 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 8.7923658635 | 50 | 8 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.0 | 8.7634583533 | 50 | 3 |
| | | Totals | Total Other Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | 0.0196011674 | 200 | 0 |
| | | | Total Chlorinated Hydrocarbons VIC EPA* | mg/kg | 1.8 | <1.8 | 0.0189680998 | 200 | 0 |
| | | | Total BTEX* | mg/kg | 0.6 | <0.6 | 0 | 200 | 0 |
| | | | Total Chlorinated Hydrocarbons - subset A* | mg/kg | 3 | <3.0 | 0.0409306451 | 200 | 0 |
| | | | Total Volatile Chlorinated Hydrocarbons* | mg/kg | 3 | <3.0 | 0.1461480796 | 200 | 0 |
| | | | Total VOC* | mg/kg | 24 | <24 | 0.3184955163 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | <0.3 | 0.0041293686 | 200 | 0 |
| | | Trihalomethan | Chloroform (THM) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | es | Bromodichloromethane (THM) | mg/kg | 0.1 | <0.1 | 0.0012024407 | 200 | 0 |
| | | | Dibromochloromethane (THM) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Bromoform (THM) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| SE276225.019 | LB334332.024 | Monocyclic | Benzene | mg/kg | 0.1 | 0.00121652270 | 0.0048109471 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | 0.0111147430 | 0 | 200 | 0 |
| | | | Ethylbenzene | mg/kg | 0.1 | 0.00125797850 | 0.0011102488 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | 0.00364468040 | 0.0021951488 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | 0.00206144780 | 0.0009735034 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | 0.00183838600 | 0.0023288997 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.43672924707 | 7.0110424356 | 50 | 29 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 10.3246787869 | 6.9601463458 | 50 | 39 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.2536065769 | 9.2651915640 | 50 | 10 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 0 | 0 | 200 | 0 |
| | | | Total Xylenes* | mg/kg | 0.3 | 0.00570612820 | 0.0031686522 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276220.002 | LB334332.026 | | TRH C6-C10 | mg/kg | 25 | <25 | 0 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | 0 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.0 | 8.7035868098 | 50 | 8 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 8.7923658635 | 50 | 8 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.0 | 8.7634583533 | 50 | 3 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | 0.0085301324 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | 0 | 200 | 0 |
| SE276225.019 | LB334332.024 | | TRH C6-C10 | mg/kg | 25 | 0.1268726321 | 0 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | 0 | 0 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 9.43672924707 | 7.0110424356 | 50 | 29 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 10.3246787869 | 6.9601463458 | 50 | 39 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 10.2536065769 | 9.2651915640 | 50 | 10 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | 0.00659915280 | 0.0048109471 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 0.1268726321 | 0 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

### Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB334359.002 | Mercury | mg/kg | 0.05 | 0.20 | 0.2 | 80 - 120 | 98 |

### OC Pesticides in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334327.002 | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 99 |
| | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 119 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 119 |
| | | Dieldrin | mg/kg | 0.1 | 0.3 | 0.2 | 60 - 140 | 128 |
| | | Endrin | mg/kg | 0.1 | 0.3 | 0.2 | 60 - 140 | 127 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 89 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.49 | 0.5 | 40 - 130 | 98 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334327.002 | | Naphthalene | mg/kg | 0.1 | 3.4 | 4 | 60 - 140 | 86 |
| | | Acenaphthylene | mg/kg | 0.1 | 3.5 | 4 | 60 - 140 | 89 |
| | | Acenaphthene | mg/kg | 0.1 | 3.5 | 4 | 60 - 140 | 86 |
| | | Phenanthrene | mg/kg | 0.1 | 3.8 | 4 | 60 - 140 | 94 |
| | | Anthracene | mg/kg | 0.1 | 3.6 | 4 | 60 - 140 | 89 |
| | | Fluoranthene | mg/kg | 0.1 | 3.6 | 4 | 60 - 140 | 91 |
| | | Pyrene | mg/kg | 0.1 | 3.8 | 4 | 60 - 140 | 95 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 109 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 96 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 95 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 70 - 130 | 95 |

### PCBs in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334327.002 | | Arochlor 1260 | mg/kg | 0.1 | 0.5 | 0.4 | 60 - 140 | 117 |
| | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.49 | 0.5 | 40 - 130 | 98 |

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

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB334350.002 | Arsenic, As | mg/kg | 1 | 340 | 318.22 | 80 - 120 | 106 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.4 | 4.81 | 70 - 130 | 92 |
| | Chromium, Cr | mg/kg | 0.5 | 39 | 38.31 | 80 - 120 | 102 |
| | Copper, Cu | mg/kg | 0.5 | 300 | 290 | 80 - 120 | 104 |
| | Nickel, Ni | mg/kg | 0.5 | 190 | 187 | 80 - 120 | 99 |
| | Lead, Pb | mg/kg | 1 | 92 | 89.9 | 80 - 120 | 102 |
| | Zinc, Zn | mg/kg | 2 | 270 | 273 | 80 - 120 | 101 |

### TRH (Total Recoverable Hydrocarbons) in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334327.002 | | TRH C10-C14 | mg/kg | 20 | 44 | 40 | 60 - 140 | 110 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 98 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 101 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 42 | 40 | 60 - 140 | 105 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 102 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 103 |

### VOC's in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334332.002 | Halogenated | 1,1-dichloroethene | mg/kg | 0.1 | 4.6 | 5 | 60 - 140 | 92 |
| | Aliphatics | 1,2-dichloroethane | mg/kg | 0.1 | 6.1 | 5 | 60 - 140 | 122 |
| | | Trichloroethene (Trichloroethylene,TCE) | mg/kg | 0.1 | 5.6 | 5 | 60 - 140 | 111 |
| | Halogenated | Chlorobenzene | mg/kg | 0.1 | 5.3 | 5 | 60 - 140 | 105 |
| | Monocyclic | Benzene | mg/kg | 0.1 | 4.5 | 5 | 60 - 140 | 90 |
| | Aromatic | Toluene | mg/kg | 0.1 | 4.4 | 5 | 60 - 140 | 88 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.6 | 5 | 60 - 140 | 92 |
| | | m/p-xylene | mg/kg | 0.2 | 8.8 | 10 | 60 - 140 | 88 |
| | | o-xylene | mg/kg | 0.1 | 4.6 | 5 | 60 - 140 | 93 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## VOC's in Soil (continued)

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334332.002 | Trihalomethan | Chloroform (THM) | mg/kg | 0.1 | 5.9 | 5 | 60 - 140 | 118 |

## Volatile Petroleum Hydrocarbons in Soil

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB334332.002 | | TRH C6-C10 | mg/kg | 25 | 91 | 92.5 | 60 - 140 | 98 |
| | | TRH C6-C9 | mg/kg | 20 | 80 | 80 | 60 - 140 | 100 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 64 | 62.5 | 60 - 140 | 102 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Mercury in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334359.004 | Mercury | mg/kg | 0.05 | 0.22 | 0.02456926136 | 0.2 | 97 |

## OC Pesticides in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334327.004 | | Alpha BHC | mg/kg | 0.1 | <0.1 | 0.00027192945 | - | - |
| | | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | 2.08386018529 | - | - |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | 0.00048745473 | - | - |
| | | | Lindane (gamma BHC) | mg/kg | 0.1 | <0.1 | 0.00048891837 | - | - |
| | | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.00233934060 | 0.2 | 114 |
| | | | Heptachlor | mg/kg | 0.1 | 0.3 | 0.00081156804 | 0.2 | 127 |
| | | | Aldrin | mg/kg | 0.1 | 0.3 | 0.00104999692 | 0.2 | 130 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | 0.00042024541 | - | - |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | 0.00050496777 | - | - |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | 0.00056993490 | - | - |
| | | | Chlordane (alpha + gamma chlordane) | mg/kg | 0.1 | <0.1 | 0.00107490268 | - | - |
| | | | Alpha Endosulfan | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | 0.00045136150 | - | - |
| | | | Dieldrin | mg/kg | 0.1 | 0.3 | 0 | 0.2 | 127 |
| | | | Endrin | mg/kg | 0.1 | 0.3 | 0 | 0.2 | 130 |
| | | | Beta Endosulfan | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Endrin aldehyde | mg/kg | 0.1 | <0.1 | 0.00055084474 | - | - |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0 | 0.2 | 102 |
| | | | Endrin ketone | mg/kg | 0.1 | <0.1 | 0.00109256329 | - | - |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Mirex | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Total OC Pesticides | mg/kg | 0.1 | 1.5 | 0 | - | - |
| | | | Total OC VIC EPA IWRG621 | mg/kg | 0.1 | 1.5 | 0 | - | - |
| | | | Total Other OCP VIC EPA IWRG621 | mg/kg | 0.1 | 0.7 | 0 | - | - |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.49 | 0.49166075027 | - | 98 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE276167.003 | LB334327.027 | | Naphthalene | mg/kg | 0.1 | 0.00020774991 | 4 | 87 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | 0.00056895645 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | 0.00060842016 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 0.00287703606 | 4 | 89 |
| | | | Acenaphthene | mg/kg | 0.1 | 0.00042574346 | 4 | 86 |
| | | | Fluorene | mg/kg | 0.1 | 0.00045468983 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 0.00050670258 | 4 | 99 |
| | | | Anthracene | mg/kg | 0.1 | 0.00212626624 | 4 | 90 |
| | | | Fluoranthene | mg/kg | 0.1 | 0.00092977302 | 4 | 96 |
| | | | Pyrene | mg/kg | 0.1 | 0.00094834018 | 4 | 102 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0.00848725653 | - | - |
| | | | Chrysene | mg/kg | 0.1 | 0.00795836185 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.00042385352 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.00073321859 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 0.00068951730 | 4 | 108 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.00069171299 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | 0.00097038610 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.00086204161 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0* | TEQ (mg/kg) | 0.2 | 0 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2* | TEQ (mg/kg) | 0.2 | 0.121 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR* | TEQ (mg/kg) | 0.3 | 0.242 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 0 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.47452887990 | - | 96 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.46873357102 | - | 93 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.45615819712 | - | 92 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## PCBs in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334327.004 | | Arochlor 1016 | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Arochlor 1232 | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Arochlor 1242 | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Arochlor 1248 | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Arochlor 1254 | mg/kg | 0.1 | <0.1 | 0 | - | - |
| | | | Arochlor 1260 | mg/kg | 0.1 | 0.5 | 0 | 0.4 | 123 |
| | | | Total PCBs | mg/kg | 0.1 | 0.5 | 0 | - | - |
| | | Surrogates | TCMX (Surrogate) | mg/kg | - | 0.49 | 0.492 | - | 98 |

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

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334350.004 | | Arsenic, As | mg/kg | 1 | 50 | 5.92459765336 | 50 | 88 |
| | | | Cadmium, Cd | mg/kg | 0.3 | 45 | 0.03469604582 | 50 | 90 |
| | | | Chromium, Cr | mg/kg | 0.5 | 68 | 23.59479813377 | 50 | 89 |
| | | | Copper, Cu | mg/kg | 0.5 | 51 | 2.98732954545 | 50 | 96 |
| | | | Nickel, Ni | mg/kg | 0.5 | 47 | 1.37495473022 | 50 | 91 |
| | | | Lead, Pb | mg/kg | 1 | 110 | 34.68334257206 | 50 | 83 |
| | | | Zinc, Zn | mg/kg | 2 | 61 | 14.79588091278 | 50 | 92 |

## TRH (Total Recoverable Hydrocarbons) in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334327.004 | | TRH C10-C14 | mg/kg | 20 | 57 | 12.25218108504 | 40 | 112 |
| | | | TRH C15-C28 | mg/kg | 45 | 260 | 131.4457294721 | 40 | -670 ⓖ |
| | | | TRH C29-C36 | mg/kg | 45 | 180 | 147.3200100806 | 40 | -175 ⓖ |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | 32.08273002199 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | 500 | 178.7657395527 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | 430 | 134.0467535740 | - | - |
| | | TRH F | TRH >C10-C16 | mg/kg | 25 | 57 | 21.73139662756 | 40 | 89 |
| | | Bands | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 57 | -0.20031473916 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | 370 | 134.0467535740 | 40 | -906 ⓖ |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 16.92425540688 | - | - |

## VOC's in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334332.004 | Monocyclic | Benzene | mg/kg | 0.1 | 4.8 | 0.02894814595 | 5 | 96 |
| | | Aromatic | Toluene | mg/kg | 0.1 | 4.7 | 0.01870303502 | 5 | 94 |
| | | | Ethylbenzene | mg/kg | 0.1 | 5.0 | 0.02178824947 | 5 | 100 |
| | | | m/p-xylene | mg/kg | 0.2 | 9.6 | 0.04715125405 | 10 | 95 |
| | | | o-xylene | mg/kg | 0.1 | 5.1 | 0.02022809338 | 5 | 101 |
| | | Polycyclic | Naphthalene (VOC)* | mg/kg | 0.1 | <0.1 | 0.20031473916 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.0 | 8.21050107065 | - | 80 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 8.19769250622 | - | 81 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.4 | 9.00738670150 | - | 94 |
| | | Totals | Total BTEX* | mg/kg | 0.6 | 29 | 0 | - | - |
| | | | Total Xylenes* | mg/kg | 0.3 | 15 | 0.06737934743 | - | - |

## Volatile Petroleum Hydrocarbons in Soil

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE276167.001 | LB334332.004 | | TRH C6-C10 | mg/kg | 25 | 80 | 0 | 92.5 | 87 |
| | | | TRH C6-C9 | mg/kg | 20 | 71 | 0 | 80 | 89 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.0 | 8.21050107065 | - | 80 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 8.19769250622 | - | 81 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.4 | 9.00738670150 | - | 94 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 4.8 | 0.02894814595 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 51 | 0 | 62.5 | 82 |

# MATRIX SPIKE DUPLICATES

SE276220 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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

# SAMPLE RECEIPT ADVICE

SE276220

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Fri 20/12/2024 |
| Report Due | Tue 31/12/2024 |
| SGS Reference | **SE276220** |

## SUBMISSION DETAILS

This is to confirm that 2 samples were received on Friday 20/12/2024. Results are expected to be ready by COB Tuesday 31/12/2024. Please quote SGS reference SE276220 when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Sample counts by matrix | 2 Soil | Type of documentation received | COC |
| Date documentation received | 20/12/2024 | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 1.4°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

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

## COMMENTS

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# SAMPLE RECEIPT ADVICE

SE276220

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable Elements in Soil/Waste | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|---|---|---|---|
| 001 | BH102-1.4-1.6 | 27 | 26 | 8 | 7 | 10 | 81 | 7 |
| 002 | BH102-3.0-3.2 | 27 | 26 | 8 | 7 | 10 | 81 | 7 |

CONTINUED OVERLEAF

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

# SAMPLE RECEIPT ADVICE

SE276220

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Mercury in Soil | Moisture Content |
|---|---|---|---|
| 001 | BH102-1.4-1.6 | 1 | 1 |
| 002 | BH102-3.0-3.2 | 1 | 1 |

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

source: Sydney.pdf page: 1 SGS Ref: SE276220_COC

smec
an ALS company

# CHAIN OF CUSTODY FORM

**SMEC Office:** North Sydney

| | | | | | | |
|---|---|---|---|---|---|---|
| **PROJECT NAME:** | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia | |
| **SITE LOCATION:** | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt | |
| **PROJECT No:** | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 | |
| **CLIENT:** | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL | |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard | |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | DESPATCH COURIER (consignment reference): | | |
| DATE(s) SAMPLED: | 19-Dec-24 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 19/12/24 at 18:00pm | DATE/TIME: | 20/12/2024 \| 9:00 AM | | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com manuel.fernandez@smec.com | RECEIVED BY: | | | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 20.12.24 @ 3.35 | | | |

SPECIAL LABORATORY INSTRUCTIONS:

Requested limits of reporting are: ■ STANDARD ☐ SPECIFIED IN QUOTATION ☐ SPECIFIED IN CoC (note: PM/TL to review) _____

Please ensure all samples are analysed within respective holding times. ☐ Note: Short holding times apply to some analytes.

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Asbestos ID and quantitation in soil (500ml) | Asbestos ID, including total weight of ACM | CL16 TRH/ BTEXN/ PAH/ OC/ PCB/ 8 Metals | CL10 TRH/ BTEXN/ PAH/ 8 Metals | CL2T - 8 Metals | REG 2 NEPM Soil Characteristics | VOC 8260 | pH/EC | TRH (C6-C9)/BTEX | BTEX | HOLD | | Comment |
| 1 | BH102-1.4-1.6 | 19/12/24 | Soil | 1 Jar | 1 | | | X | | | | X | | | | | | |
| 2 | BH102-3.0-3.2 | 19/12/24 | Soil | 1 Jar | 1 | | | X | | | | X | | | | | | |
| | | | | TOTAL | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | |

Common Abbreviations: S - Soil, W - Water, M - Material, UP - Unpreserved, P - Preserved, PM- Project Manager, TL - Technical Lead, LOR - Limits of reporting, CoC - Chain of custody

SGS EHS Sydney COC

**SE276220**

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 7 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE276667 R0** |
| Date Received | 9/1/2025 |
| Date Reported | 20/1/2025 |

## COMMENTS

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

TRH/PAH - Sample #4 received had insufficient amounts supplied by client.

## SIGNATORIES

**Akheeqar BENIAMEEN**
Chemist

**Dong LIANG**
Metals/Inorganics Team Leader

**Kamrul AHSAN**
Senior Chemist

**Ly Kim HA**
Organic Section Head

**Nathan CAMILLERI**
Organics Manager

## VOCs in Water [AN433] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101 WATER - 9/1/2025 SE276667.001 | BH102 WATER - 9/1/2025 SE276667.002 | BH103 WATER - 9/1/2025 SE276667.003 | QA01 WATER - 9/1/2025 SE276667.004 | Trip Spike WATER - 9/1/2025 SE276667.005 |
|---|---|---|---|---|---|---|---|
| Benzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | [125%] |
| Toluene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | [125%] |
| Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | [98%] |
| m/p-xylene | µg/L | 1 | <1 | <1 | <1 | <1 | [96%] |
| o-xylene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | [97%] |
| Total Xylenes | µg/L | 1.5 | <1.5 | <1.5 | <1.5 | <1.5 | - |
| Total BTEX | µg/L | 3 | <3 | <3 | <3 | <3 | - |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | [92%] |
| Dichlorodifluoromethane (CFC-12) | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| Chloromethane | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| Vinyl chloride (Chloroethene) | µg/L | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | - |
| Bromomethane | µg/L | 10 | <10 | <10 | <10 | <10 | - |
| Chloroethane | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| Trichlorofluoromethane | µg/L | 1 | <1 | <1 | <1 | <1 | - |
| Acetone (2-propanone) | µg/L | 10 | <10 | <10 | <10 | <10 | - |
| Iodomethane | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| 1,1-dichloroethene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Acrylonitrile | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Dichloromethane (Methylene chloride) | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| Allyl chloride | µg/L | 2 | <2 | <2 | <2 | <2 | - |
| Carbon disulfide | µg/L | 2 | <2 | <2 | <2 | <2 | - |
| trans-1,2-dichloroethene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| MtBE (Methyl-tert-butyl ether) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,1-dichloroethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Vinyl acetate* | µg/L | 10 | <10 | <10 | <10 | <10 | - |
| MEK (2-butanone) | µg/L | 10 | <10 | <10 | <10 | <10 | - |
| cis-1,2-dichloroethene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Bromochloromethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Chloroform (THM) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 2,2-dichloropropane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2-dichloroethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,1,1-trichloroethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,1-dichloropropene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Carbon tetrachloride | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Dibromomethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2-dichloropropane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 2-nitropropane | µg/L | 100 | <100 | <100 | <100 | <100 | - |
| Bromodichloromethane (THM) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| MIBK (4-methyl-2-pentanone) | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| cis-1,3-dichloropropene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| trans-1,3-dichloropropene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,1,2-trichloroethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,3-dichloropropane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Dibromochloromethane (THM) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 2-hexanone (MBK) | µg/L | 5 | <5 | <5 | <5 | <5 | - |
| 1,2-dibromoethane (EDB) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,1,1,2-tetrachloroethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Chlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Bromoform (THM) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Styrene (Vinyl benzene) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,1,2,2-tetrachloroethane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2,3-trichloropropane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| trans-1,4-dichloro-2-butene | µg/L | 1 | <1 | <1 | <1 | <1 | - |
| Isopropylbenzene (Cumene) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |

## VOCs in Water [AN433] Tested: 15/1/2025 (continued)

| PARAMETER | UOM | LOR | BH101 WATER - 9/1/2025 SE276667.001 | BH102 WATER - 9/1/2025 SE276667.002 | BH103 WATER - 9/1/2025 SE276667.003 | QA01 WATER - 9/1/2025 SE276667.004 | Trip Spike WATER - 9/1/2025 SE276667.005 |
|---|---|---|---|---|---|---|---|
| Bromobenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| n-propylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 2-chlorotoluene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 4-chlorotoluene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,3,5-trimethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| tert-butylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2,4-trimethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| sec-butylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,3-dichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,4-dichlorobenzene | µg/L | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | - |
| p-isopropyltoluene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2-dichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| n-butylbenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2-dibromo-3-chloropropane | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2,4-trichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Hexachlorobutadiene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| 1,2,3-trichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| Total VOC | µg/L | 10 | <10 | <10 | <10 | <10 | - |

## VOCs in Water [AN433] Tested: 15/1/2025 (continued)

| PARAMETER | UOM | LOR | Trip Blank<br>WATER<br>-<br>9/1/2025<br>SE276667.006 |
|---|---|---|---|
| Benzene | µg/L | 0.5 | <0.5 |
| Toluene | µg/L | 0.5 | <0.5 |
| Ethylbenzene | µg/L | 0.5 | <0.5 |
| m/p-xylene | µg/L | 1 | <1 |
| o-xylene | µg/L | 0.5 | <0.5 |
| Total Xylenes | µg/L | 1.5 | <1.5 |
| Total BTEX | µg/L | 3 | <3 |
| Naphthalene (VOC)* | µg/L | 0.5 | <0.5 |
| Dichlorodifluoromethane (CFC-12) | µg/L | 5 | - |
| Chloromethane | µg/L | 5 | - |
| Vinyl chloride (Chloroethene) | µg/L | 0.3 | - |
| Bromomethane | µg/L | 10 | - |
| Chloroethane | µg/L | 5 | - |
| Trichlorofluoromethane | µg/L | 1 | - |
| Acetone (2-propanone) | µg/L | 10 | - |
| Iodomethane | µg/L | 5 | - |
| 1,1-dichloroethene | µg/L | 0.5 | - |
| Acrylonitrile | µg/L | 0.5 | - |
| Dichloromethane (Methylene chloride) | µg/L | 5 | - |
| Allyl chloride | µg/L | 2 | - |
| Carbon disulfide | µg/L | 2 | - |
| trans-1,2-dichloroethene | µg/L | 0.5 | - |
| MtBE (Methyl-tert-butyl ether) | µg/L | 0.5 | - |
| 1,1-dichloroethane | µg/L | 0.5 | - |
| Vinyl acetate* | µg/L | 10 | - |
| MEK (2-butanone) | µg/L | 10 | - |
| cis-1,2-dichloroethene | µg/L | 0.5 | - |
| Bromochloromethane | µg/L | 0.5 | - |
| Chloroform (THM) | µg/L | 0.5 | - |
| 2,2-dichloropropane | µg/L | 0.5 | - |
| 1,2-dichloroethane | µg/L | 0.5 | - |
| 1,1,1-trichloroethane | µg/L | 0.5 | - |
| 1,1-dichloropropene | µg/L | 0.5 | - |
| Carbon tetrachloride | µg/L | 0.5 | - |
| Dibromomethane | µg/L | 0.5 | - |
| 1,2-dichloropropane | µg/L | 0.5 | - |
| Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | - |
| 2-nitropropane | µg/L | 100 | - |
| Bromodichloromethane (THM) | µg/L | 0.5 | - |
| MIBK (4-methyl-2-pentanone) | µg/L | 5 | - |
| cis-1,3-dichloropropene | µg/L | 0.5 | - |
| trans-1,3-dichloropropene | µg/L | 0.5 | - |
| 1,1,2-trichloroethane | µg/L | 0.5 | - |
| 1,3-dichloropropane | µg/L | 0.5 | - |
| Dibromochloromethane (THM) | µg/L | 0.5 | - |
| 2-hexanone (MBK) | µg/L | 5 | - |
| 1,2-dibromoethane (EDB) | µg/L | 0.5 | - |
| Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | - |
| 1,1,1,2-tetrachloroethane | µg/L | 0.5 | - |
| Chlorobenzene | µg/L | 0.5 | - |
| Bromoform (THM) | µg/L | 0.5 | - |
| Styrene (Vinyl benzene) | µg/L | 0.5 | - |
| 1,1,2,2-tetrachloroethane | µg/L | 0.5 | - |
| 1,2,3-trichloropropane | µg/L | 0.5 | - |
| trans-1,4-dichloro-2-butene | µg/L | 1 | - |
| Isopropylbenzene (Cumene) | µg/L | 0.5 | - |

## VOCs in Water [AN433] Tested: 15/1/2025 (continued)

| PARAMETER | UOM | LOR | Trip Blank<br>WATER<br>-<br>9/1/2025<br>SE276667.006 |
|---|---|---|---|
| Bromobenzene | µg/L | 0.5 | - |
| n-propylbenzene | µg/L | 0.5 | - |
| 2-chlorotoluene | µg/L | 0.5 | - |
| 4-chlorotoluene | µg/L | 0.5 | - |
| 1,3,5-trimethylbenzene | µg/L | 0.5 | - |
| tert-butylbenzene | µg/L | 0.5 | - |
| 1,2,4-trimethylbenzene | µg/L | 0.5 | - |
| sec-butylbenzene | µg/L | 0.5 | - |
| 1,3-dichlorobenzene | µg/L | 0.5 | - |
| 1,4-dichlorobenzene | µg/L | 0.3 | - |
| p-isopropyltoluene | µg/L | 0.5 | - |
| 1,2-dichlorobenzene | µg/L | 0.5 | - |
| n-butylbenzene | µg/L | 0.5 | - |
| 1,2-dibromo-3-chloropropane | µg/L | 0.5 | - |
| 1,2,4-trichlorobenzene | µg/L | 0.5 | - |
| Hexachlorobutadiene | µg/L | 0.5 | - |
| 1,2,3-trichlorobenzene | µg/L | 0.5 | - |
| Total VOC | µg/L | 10 | - |

## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101<br>WATER<br>-<br>9/1/2025<br>SE276667.001 | BH102<br>WATER<br>-<br>9/1/2025<br>SE276667.002 | BH103<br>WATER<br>-<br>9/1/2025<br>SE276667.003 | QA01<br>WATER<br>-<br>9/1/2025<br>SE276667.004 | Trip Blank<br>WATER<br>-<br>9/1/2025<br>SE276667.006 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | µg/L | 40 | <40 | <40 | <40 | <40 | <40 |
| Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TRH C6-C10 | µg/L | 50 | <50 | <50 | <50 | <50 | <50 |
| TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | <50 | <50 | <50 |

## TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101 WATER - 9/1/2025 SE276667.001 | BH102 WATER - 9/1/2025 SE276667.002 | BH103 WATER - 9/1/2025 SE276667.003 | QA01 WATER - 9/1/2025 SE276667.004 |
|---|---|---|---|---|---|---|
| TRH C10-C14 | µg/L | 50 | <50 | <50 | <50 | IS |
| TRH C15-C28 | µg/L | 200 | <200 | <200 | <200 | IS |
| TRH C29-C36 | µg/L | 200 | <200 | <200 | <200 | IS |
| TRH C37-C40 | µg/L | 200 | <200 | <200 | <200 | IS |
| TRH >C10-C16 | µg/L | 60 | <60 | <60 | <60 | IS |
| TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | <60 | <60 | <60 | IS |
| TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | <500 | IS |
| TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | <500 | IS |
| TRH C10-C40 | µg/L | 320 | <320 | <320 | <320 | IS |

## Low Level PAH (Poly Aromatic Hydrocarbons) in Water [AN420] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101 WATER - 9/1/2025 SE276667.001 | BH102 WATER - 9/1/2025 SE276667.002 | BH103 WATER - 9/1/2025 SE276667.003 | QA01 WATER - 9/1/2025 SE276667.004 |
|---|---|---|---|---|---|---|
| Naphthalene | µg/L | 0.02 | **0.05** | **0.04** | <0.02 | IS |
| 2-methylnaphthalene | µg/L | 0.01 | **0.03** | **0.03** | **0.01** | IS |
| 1-methylnaphthalene | µg/L | 0.01 | **0.03** | **0.01** | **0.01** | IS |
| Acenaphthylene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Acenaphthene | µg/L | 0.01 | **0.01** | <0.01 | <0.01 | IS |
| Fluorene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Phenanthrene | µg/L | 0.01 | **0.01** | <0.01 | **0.01** | IS |
| Anthracene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Fluoranthene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Benzo(a)anthracene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Chrysene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Benzo(b&j&k)fluoranthene | µg/L | 0.02 | <0.02 | <0.02 | <0.02 | IS |
| Benzo(a)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Dibenzo(ah)anthracene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Benzo(ghi)perylene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | IS |
| Carcinogenic PAHs (as BaP TEQ) - assume non | TEQ (µg/L) | 0.012 | <0.012 | <0.012 | <0.012 | IS |
| Total PAH VIC EPA Guidelines (16)* | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | IS |
| Total PAH (18)* | µg/L | 0.1 | **0.1** | <0.1 | <0.1 | IS |

## Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water [AN404] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101 WATER - 9/1/2025 SE276667.001 | BH102 WATER - 9/1/2025 SE276667.002 | BH103 WATER - 9/1/2025 SE276667.003 | QA01 WATER - 9/1/2025 SE276667.004 | PFAS BLANK WATER - 9/1/2025 SE276667.007 |
|---|---|---|---|---|---|---|---|
| Perfluorobutanoic acid (PFBA) | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| Perfluoropentanoic acid (PFPeA) | µg/L | 0.001 | <0.001 | <0.001 | **0.004** | IS | <0.001 |
| Perfluorohexanoic acid (PFHxA) | µg/L | 0.001 | **0.004** | <0.001 | **0.002** | IS | <0.001 |
| Perfluoroheptanoic acid (PFHpA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorooctanoic acid (PFOA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorononanoic acid (PFNA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorodecanoic acid (PFDA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluoroundecanoic acid (PFUnDA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorododecanoic acid (PFDoDA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorotetradecanoic acid (PFTeDA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorotridecanoic acid (PFTrDA) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluoropropane sulfonic acid (PFPrS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorobutane sulfonic acid (PFBS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorohexane sulfonic acid (PFHxS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluoropentane sulfonic acid (PFPeS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluoroheptane sulfonic acid (PFHpS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorooctane sulfonic acid (PFOS) | µg/L | 0.0002 | <0.0002 | **0.0043** | <0.0002 | IS | <0.0002 |
| Perfluorononane sulfonic acid (PFNS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| Perfluorodecane sulfonic acid (PFDS) | µg/L | 0.001 | <0.001 | <0.001 | <0.001 | IS | <0.001 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | µg/L | 0.002 | <0.002 | <0.002 | <0.002 | IS | <0.002 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | µg/L | 0.002 | <0.002 | <0.002 | <0.002 | IS | <0.002 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | µg/L | 0.002 | <0.002 | <0.002 | <0.002 | IS | <0.002 |
| 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 | µg/L | 0.002 | <0.002 | <0.002 | <0.002 | IS | <0.002 |
| Perfluorooctane sulfonamide (FOSA) | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| N-Methylperfluoroctane sulfonamide (N-MeFOSA) | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| N-Ethylperfluoroctane sulfonamide (N-EtFOSA) | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| N-Methylperfluorooctanesulfonamidoacetic acid | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| N-Ethylperfluorooctanesulfonamidoacetic acid | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| 2-(N-Methylperfluorooctane sulfonamido)-ethanol | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| 2-(N-Ethylperfluorooctane sulfonamido)-ethanol | µg/L | 0.005 | <0.005 | <0.005 | <0.005 | IS | <0.005 |
| Sum of PFOS and PFHxS | µg/L | 0.0002 | <0.0002 | **0.0043** | <0.0002 | IS | <0.0002 |
| Sum of enHealth PFAS (PFHxS+PFOS+PFOA) | µg/L | 0.0002 | <0.0002 | **0.0043** | <0.0002 | IS | <0.0002 |
| Sum of US EPA PFAS (PFOS+PFOA) | µg/L | 0.0002 | <0.0002 | **0.0043** | <0.0002 | IS | <0.0002 |
| Sum of Positive PFAS | µg/L | 0.0002 | **0.0043** | **0.0043** | **0.0059** | IS | <0.0002 |

## Metals in Water (Dissolved) by ICPOES [AN320] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101<br>WATER<br>-<br>9/1/2025<br>SE276667.001 | BH102<br>WATER<br>-<br>9/1/2025<br>SE276667.002 | BH103<br>WATER<br>-<br>9/1/2025<br>SE276667.003 | QA01<br>WATER<br>-<br>9/1/2025<br>SE276667.004 |
|---|---|---|---|---|---|---|
| Total Hardness by Calculation | mg CaCO3/L | 5 | 1200 | 1700 | 1600 | 1200 |

## Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 20/1/2025

| PARAMETER | UOM | LOR | BH101 WATER - 9/1/2025 SE276667.001 | BH102 WATER - 9/1/2025 SE276667.002 | BH103 WATER - 9/1/2025 SE276667.003 | QA01 WATER - 9/1/2025 SE276667.004 |
|---|---|---|---|---|---|---|
| Arsenic | µg/L | 1 | **9** | <1 | **3** | **9** |
| Cadmium | µg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Copper | µg/L | 1 | <1 | **6** | <1 | <1 |
| Chromium | µg/L | 1 | <1 | <1 | <1 | <1 |
| Nickel | µg/L | 1 | **45** | **14** | **93** | **43** |
| Lead | µg/L | 1 | <1 | <1 | <1 | <1 |
| Zinc | µg/L | 5 | <5 | **100** | **25** | <5 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 15/1/2025

| PARAMETER | UOM | LOR | BH101<br>WATER<br>-<br>9/1/2025<br>SE276667.001 | BH102<br>WATER<br>-<br>9/1/2025<br>SE276667.002 | BH103<br>WATER<br>-<br>9/1/2025<br>SE276667.003 | QA01<br>WATER<br>-<br>9/1/2025<br>SE276667.004 |
|---|---|---|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN318 | Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4). |
| AN320 | Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components . |
| AN320 | Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements . Reference APHA 3120 B. |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used. |
| AN403 | Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents. |
| AN403 | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken . This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B. |
| AN404 | This method covers the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid and biosolid samples and solvent extracts. After spiking with isotopically labelled quantification surrogates and sample extracts are analysed by liquid chromatography/mass spectrometry (LC-MS/MS). PFAS concentrations are determined by isotope dilution quantification. PFOS and PFHXS are determined as the total of linear and branched isomers. |
| AN420 | PAH Compounds: The determination the concentration of polynuclear aromatic hydrocarbons (PAH) in solid waste matrices, soils and waters by Gas Chromatography with Mass Spectrometric Detection (Based on USEPA 3500C and 8270D).<br>Total PAH calculated from individual analyte detections at or above the limit of reporting . |
| AN420 | Carcinogenic PAHs may be expressed as Benzo(a)pyrene equivalents by applying the BaP toxicity equivalence factor (NEPM 1999, June 2013, B7). These can be reported as the individual PAHs and as a sum of carcinogenic PAHs. The sum is reported three ways, the first assuming all <LOR results are zero, the second assuming all < LOR results are half the LOR and the third assuming all <LOR results are the LOR. |
| AN433 | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260. |

FOOTNOTES

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

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

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

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

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

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

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

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

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

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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# STATEMENT OF QA/QC PERFORMANCE

SE276667 R0

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 7 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE276667 R0** |
| Date Received | 09 Jan 2025 |
| Date Reported | 20 Jan 2025 |

## COMMENTS

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

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

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

| | | |
|---|---|---|
| Surrogate | Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water | 10 items |
| Duplicate | VOCs in Water | 2 items |
| | Volatile Petroleum Hydrocarbons in Water | 2 items |

## SAMPLE SUMMARY

| | | | |
|---|---|---|---|
| Sample counts by matrix | 7 Water | Type of documentation received | COC |
| Date documentation received | 13/1/2025@5:04pm | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 4°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

# HOLDING TIME SUMMARY

SE276667 R0

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

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

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

## Low Level PAH (Poly Aromatic Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| BH102 | SE276667.002 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| BH103 | SE276667.003 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| QA01 | SE276667.004 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| Trip Blank | SE276667.006 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |

## Mercury (dissolved) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335038 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 |
| BH102 | SE276667.002 | LB335038 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 |
| BH103 | SE276667.003 | LB335038 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 |
| QA01 | SE276667.004 | LB335038 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 |

## Metals in Water (Dissolved) by ICPOES

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335056 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 15 Jan 2025 | 08 Jul 2025 | 16 Jan 2025 |
| BH102 | SE276667.002 | LB335056 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 15 Jan 2025 | 08 Jul 2025 | 16 Jan 2025 |
| BH103 | SE276667.003 | LB335056 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 15 Jan 2025 | 08 Jul 2025 | 16 Jan 2025 |
| QA01 | SE276667.004 | LB335056 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 15 Jan 2025 | 08 Jul 2025 | 16 Jan 2025 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335402 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 |
| BH102 | SE276667.002 | LB335402 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 |
| BH103 | SE276667.003 | LB335402 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 |
| QA01 | SE276667.004 | LB335402 | 09 Jan 2025 | 09 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 | 08 Jul 2025 | 20 Jan 2025 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| BH102 | SE276667.002 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| BH103 | SE276667.003 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| QA01 | SE276667.004 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |
| Trip Blank | SE276667.006 | LB335041 | 09 Jan 2025 | 09 Jan 2025 | 16 Jan 2025 | 15 Jan 2025 | 24 Feb 2025 | 20 Jan 2025 |

## Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water

Method: ME-(AU)-[ENV]AN404

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335068 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 12 Feb 2025 | 20 Jan 2025 |
| BH102 | SE276667.002 | LB335068 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 12 Feb 2025 | 20 Jan 2025 |
| BH103 | SE276667.003 | LB335068 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 12 Feb 2025 | 20 Jan 2025 |
| PFAS BLANK | SE276667.007 | LB335068 | 09 Jan 2025 | 09 Jan 2025 | 06 Feb 2025 | 15 Jan 2025 | 12 Feb 2025 | 20 Jan 2025 |

## VOCs in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| BH102 | SE276667.002 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| BH103 | SE276667.003 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| QA01 | SE276667.004 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| Trip Spike | SE276667.005 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| Trip Blank | SE276667.006 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH101 | SE276667.001 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| BH102 | SE276667.002 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| BH103 | SE276667.003 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| QA01 | SE276667.004 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| Trip Spike | SE276667.005 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |
| Trip Blank | SE276667.006 | LB335143 | 09 Jan 2025 | 09 Jan 2025 | 23 Jan 2025 | 15 Jan 2025 | 23 Jan 2025 | 16 Jan 2025 |

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

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

### Low Level PAH (Poly Aromatic Hydrocarbons) in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 59 |
| | BH102 | SE276667.002 | % | 40 - 130% | 75 |
| | BH103 | SE276667.003 | % | 40 - 130% | 57 |
| d14-p-terphenyl (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 64 |
| | BH102 | SE276667.002 | % | 40 - 130% | 77 |
| | BH103 | SE276667.003 | % | 40 - 130% | 62 |
| d5-nitrobenzene (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 61 |
| | BH102 | SE276667.002 | % | 40 - 130% | 83 |
| | BH103 | SE276667.003 | % | 40 - 130% | 65 |

### Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water

Method: ME-(AU)-[ENV]AN404

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| (13C2_PFTeDA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 10 - 150% | 29 |
| | BH102 | SE276667.002 | % | 10 - 150% | 0 ④ |
| | BH103 | SE276667.003 | % | 10 - 150% | 36 |
| | PFAS BLANK | SE276667.007 | % | 10 - 150% | 41 |
| (13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 300% | 117 |
| | BH102 | SE276667.002 | % | 40 - 300% | 44 |
| | BH103 | SE276667.003 | % | 40 - 300% | 80 |
| | PFAS BLANK | SE276667.007 | % | 40 - 300% | 73 |
| (13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 300% | 66 |
| | BH102 | SE276667.002 | % | 40 - 300% | 12 ④ |
| | BH103 | SE276667.003 | % | 40 - 300% | 43 |
| | PFAS BLANK | SE276667.007 | % | 40 - 300% | 65 |
| (13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 300% | 58 |
| | BH102 | SE276667.002 | % | 40 - 300% | 7 ④ |
| | BH103 | SE276667.003 | % | 40 - 300% | 39 † |
| | PFAS BLANK | SE276667.007 | % | 40 - 300% | 67 |
| (13C2-PFDoA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 10 - 150% | 77 |
| | BH102 | SE276667.002 | % | 10 - 150% | 17 |
| | BH103 | SE276667.003 | % | 10 - 150% | 79 |
| | PFAS BLANK | SE276667.007 | % | 10 - 150% | 127 |
| (13C3-PFBS) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 94 |
| | BH102 | SE276667.002 | % | 40 - 150% | 67 |
| | BH103 | SE276667.003 | % | 40 - 150% | 93 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 83 |
| (13C3-PFHxS) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 134 |
| | BH102 | SE276667.002 | % | 40 - 150% | 82 |
| | BH103 | SE276667.003 | % | 40 - 150% | 134 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 127 |
| (13C4_PFOA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 87 |
| | BH102 | SE276667.002 | % | 40 - 150% | 74 |
| | BH103 | SE276667.003 | % | 40 - 150% | 93 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 92 |
| (13C4-PFBA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 5 - 150% | 91 |
| | BH102 | SE276667.002 | % | 5 - 150% | 96 |
| | BH103 | SE276667.003 | % | 5 - 150% | 105 |
| | PFAS BLANK | SE276667.007 | % | 5 - 150% | 100 |
| (13C4-PFHpA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 208 ④ |
| | BH102 | SE276667.002 | % | 40 - 150% | 80 |
| | BH103 | SE276667.003 | % | 40 - 150% | 99 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 100 |
| (13C5-PFHxA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 100 |
| | BH102 | SE276667.002 | % | 40 - 150% | 86 |
| | BH103 | SE276667.003 | % | 40 - 150% | 99 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 96 |
| (13C5-PFPeA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 35 - 150% | 83 |
| | BH102 | SE276667.002 | % | 35 - 150% | 83 |
| | BH103 | SE276667.003 | % | 35 - 150% | 97 |
| | PFAS BLANK | SE276667.007 | % | 35 - 150% | 92 |
| (13C6-PFDA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 90 |

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

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

## Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water (continued)

Method: ME-(AU)-[ENV]AN404

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| (13C6-PFDA) Isotopically Labelled Internal Recovery Standard | BH102 | SE276667.002 | % | 40 - 150% | 49 |
| | BH103 | SE276667.003 | % | 40 - 150% | 82 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 90 |
| (13C7-PFUdA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 30 - 150% | 76 |
| | BH102 | SE276667.002 | % | 30 - 150% | 28 ④ |
| | BH103 | SE276667.003 | % | 30 - 150% | 65 |
| | PFAS BLANK | SE276667.007 | % | 30 - 150% | 88 |
| (13C8-PFOS) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 95 |
| | BH102 | SE276667.002 | % | 40 - 150% | 23 ④ |
| | BH103 | SE276667.003 | % | 40 - 150% | 78 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 78 |
| (13C8-PFOSA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 20 - 150% | 152 † |
| | BH102 | SE276667.002 | % | 20 - 150% | 111 |
| | BH103 | SE276667.003 | % | 20 - 150% | 118 |
| | PFAS BLANK | SE276667.007 | % | 20 - 150% | 88 |
| (13C9-PFNA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 40 - 150% | 104 |
| | BH102 | SE276667.002 | % | 40 - 150% | 76 |
| | BH103 | SE276667.003 | % | 40 - 150% | 106 |
| | PFAS BLANK | SE276667.007 | % | 40 - 150% | 111 |
| (D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 10 - 150% | 67 |
| | BH102 | SE276667.002 | % | 10 - 150% | 3 ④ |
| | BH103 | SE276667.003 | % | 10 - 150% | 39 |
| | PFAS BLANK | SE276667.007 | % | 10 - 150% | 62 |
| (D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 30 - 170% | 81 |
| | BH102 | SE276667.002 | % | 30 - 170% | 74 |
| | BH103 | SE276667.003 | % | 30 - 170% | 90 |
| | PFAS BLANK | SE276667.007 | % | 30 - 170% | 84 |
| (D5-N-EtFOSA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 10 - 150% | 54 |
| | BH102 | SE276667.002 | % | 10 - 150% | 1 ④ |
| | BH103 | SE276667.003 | % | 10 - 150% | 35 |
| | PFAS BLANK | SE276667.007 | % | 10 - 150% | 58 |
| (D5-N-EtFOSAA) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 20 - 150% | 104 |
| | BH102 | SE276667.002 | % | 20 - 150% | 55 |
| | BH103 | SE276667.003 | % | 20 - 150% | 108 |
| | PFAS BLANK | SE276667.007 | % | 20 - 150% | 120 |
| (D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 10 - 150% | 47 |
| | BH102 | SE276667.002 | % | 10 - 150% | 28 |
| | BH103 | SE276667.003 | % | 10 - 150% | 55 |
| | PFAS BLANK | SE276667.007 | % | 10 - 150% | 79 |
| (D9-N-EtFOSE) Isotopically Labelled Internal Recovery Standard | BH101 | SE276667.001 | % | 10 - 150% | 39 |
| | BH102 | SE276667.002 | % | 10 - 150% | 21 |
| | BH103 | SE276667.003 | % | 10 - 150% | 50 |
| | PFAS BLANK | SE276667.007 | % | 10 - 150% | 85 |

## VOCs in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 96 |
| | BH102 | SE276667.002 | % | 40 - 130% | 94 |
| | BH103 | SE276667.003 | % | 40 - 130% | 93 |
| | QA01 | SE276667.004 | % | 40 - 130% | 93 |
| | Trip Spike | SE276667.005 | % | 40 - 130% | 115 |
| | Trip Blank | SE276667.006 | % | 40 - 130% | 92 |
| d4-1,2-dichloroethane (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 74 |
| | BH102 | SE276667.002 | % | 40 - 130% | 73 |
| | BH103 | SE276667.003 | % | 40 - 130% | 76 |
| | QA01 | SE276667.004 | % | 40 - 130% | 72 |
| | Trip Spike | SE276667.005 | % | 40 - 130% | 95 |
| | Trip Blank | SE276667.006 | % | 40 - 130% | 96 |
| d8-toluene (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 66 |
| | BH102 | SE276667.002 | % | 40 - 130% | 63 |
| | BH103 | SE276667.003 | % | 40 - 130% | 67 |

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

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

### VOCs in Water (continued)

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | QA01 | SE276667.004 | % | 40 - 130% | 62 |
| | Trip Spike | SE276667.005 | % | 40 - 130% | 91 |
| | Trip Blank | SE276667.006 | % | 40 - 130% | 94 |

### Volatile Petroleum Hydrocarbons in Water

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

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 96 |
| | BH102 | SE276667.002 | % | 40 - 130% | 94 |
| | BH103 | SE276667.003 | % | 40 - 130% | 93 |
| | QA01 | SE276667.004 | % | 40 - 130% | 93 |
| | Trip Blank | SE276667.006 | % | 40 - 130% | 92 |
| d4-1,2-dichloroethane (Surrogate) | BH101 | SE276667.001 | % | 60 - 130% | 74 |
| | BH102 | SE276667.002 | % | 60 - 130% | 73 |
| | BH103 | SE276667.003 | % | 60 - 130% | 76 |
| | QA01 | SE276667.004 | % | 60 - 130% | 72 |
| | Trip Blank | SE276667.006 | % | 60 - 130% | 96 |
| d8-toluene (Surrogate) | BH101 | SE276667.001 | % | 40 - 130% | 66 |
| | BH102 | SE276667.002 | % | 40 - 130% | 63 |
| | BH103 | SE276667.003 | % | 40 - 130% | 67 |
| | QA01 | SE276667.004 | % | 40 - 130% | 62 |
| | Trip Blank | SE276667.006 | % | 40 - 130% | 94 |

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

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

## Low Level PAH (Poly Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB335041.001 | | Naphthalene | µg/L | 0.02 | <0.02 |
| | | 2-methylnaphthalene | µg/L | 0.01 | <0.01 |
| | | 1-methylnaphthalene | µg/L | 0.01 | <0.01 |
| | | Acenaphthylene | µg/L | 0.01 | <0.01 |
| | | Acenaphthene | µg/L | 0.01 | <0.01 |
| | | Fluorene | µg/L | 0.01 | <0.01 |
| | | Phenanthrene | µg/L | 0.01 | <0.01 |
| | | Anthracene | µg/L | 0.01 | <0.01 |
| | | Fluoranthene | µg/L | 0.01 | <0.01 |
| | | Pyrene | µg/L | 0.01 | <0.01 |
| | | Benzo(a)anthracene | µg/L | 0.01 | <0.01 |
| | | Chrysene | µg/L | 0.01 | <0.01 |
| | | Benzo(b&j&k)fluoranthene | µg/L | 0.02 | <0.02 |
| | | Benzo(a)pyrene | µg/L | 0.01 | <0.01 |
| | | Indeno(1,2,3-cd)pyrene | µg/L | 0.01 | <0.01 |
| | | Dibenzo(ah)anthracene | µg/L | 0.01 | <0.01 |
| | | Benzo(ghi)perylene | µg/L | 0.01 | <0.01 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 72 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 64 |
| | | d14-p-terphenyl (Surrogate) | % | - | 84 |

## Mercury (dissolved) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB335038.001 | Mercury | mg/L | 0.0001 | <0.0001 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB335402.001 | Arsenic | µg/L | 1 | <1 |
| | Cadmium | µg/L | 0.1 | <0.1 |
| | Chromium | µg/L | 1 | <1 |
| | Copper | µg/L | 1 | <1 |
| | Lead | µg/L | 1 | <1 |
| | Nickel | µg/L | 1 | <1 |
| | Zinc | µg/L | 5 | <5 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB335041.001 | TRH C10-C14 | µg/L | 50 | <50 |
| | TRH C15-C28 | µg/L | 200 | <200 |
| | TRH C29-C36 | µg/L | 200 | <200 |
| | TRH C37-C40 | µg/L | 200 | <200 |

## Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water

Method: ME-(AU)-[ENV]AN404

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB335068.001 | Perfluorobutanoic acid (PFBA) | µg/L | 0.005 | <0.005 |
| | Perfluoropentanoic acid (PFPeA) | µg/L | 0.001 | <0.001 |
| | Perfluorohexanoic acid (PFHxA) | µg/L | 0.001 | <0.001 |
| | Perfluoroheptanoic acid (PFHpA) | µg/L | 0.001 | <0.001 |
| | Perfluorooctanoic acid (PFOA) | µg/L | 0.001 | <0.001 |
| | Perfluorononanoic acid (PFNA) | µg/L | 0.001 | <0.001 |
| | Perfluorodecanoic acid (PFDA) | µg/L | 0.001 | <0.001 |
| | Perfluoroundecanoic acid (PFUnDA) | µg/L | 0.001 | <0.001 |
| | Perfluorododecanoic acid (PFDoDA) | µg/L | 0.001 | <0.001 |
| | Perfluorotetradecanoic acid (PFTeDA) | µg/L | 0.001 | <0.001 |
| | Perfluorotridecanoic acid (PFTrDA) | µg/L | 0.001 | <0.001 |
| | Perfluoropropane sulfonic acid (PFPrS) | µg/L | 0.001 | <0.001 |
| | Perfluorobutane sulfonic acid (PFBS) | µg/L | 0.001 | <0.001 |
| | Perfluorohexane sulfonic acid (PFHxS) | µg/L | 0.001 | <0.001 |
| | Perfluoropentane sulfonic acid (PFPeS) | µg/L | 0.001 | <0.001 |
| | Perfluoroheptane sulfonic acid (PFHpS) | µg/L | 0.001 | <0.001 |
| | Perfluorooctane sulfonic acid (PFOS) | µg/L | 0.0002 | <0.0002 |

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

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

## Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water (continued)

Method: ME-(AU)-[ENV]AN404

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB335068.001 | Perfluorononane sulfonic acid (PFNS) | µg/L | 0.001 | <0.001 |
| | Perfluorodecane sulfonic acid (PFDS) | µg/L | 0.001 | <0.001 |
| | 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | µg/L | 0.002 | <0.002 |
| | 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | µg/L | 0.002 | <0.002 |
| | 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | µg/L | 0.002 | <0.002 |
| | 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) | µg/L | 0.002 | <0.002 |
| | Perfluorooctane sulfonamide (FOSA) | µg/L | 0.005 | <0.005 |
| | N-Methylperfluorooctane sulfonamide (N-MeFOSA) | µg/L | 0.005 | <0.005 |
| | N-Ethylperfluorooctane sulfonamide (N-EtFOSA) | µg/L | 0.005 | <0.005 |
| | N-Methylperfluorooctanesulfonamidoacetic acid (N_MeFOSAA) | µg/L | 0.005 | <0.005 |
| | N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) | µg/L | 0.005 | <0.005 |
| | 2-(N-Methylperfluorooctane sulfonamido)-ethanol (N-MeFOSE) | µg/L | 0.005 | <0.005 |
| | 2-(N-Ethylperfluorooctane sulfonamido)-ethanol (N-EtFOSE) | µg/L | 0.005 | <0.005 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB335143.001 | Fumigants | 2,2-dichloropropane | µg/L | 0.5 | <0.5 |
| | | 1,2-dichloropropane | µg/L | 0.5 | <0.5 |
| | | cis-1,3-dichloropropene | µg/L | 0.5 | <0.5 |
| | | trans-1,3-dichloropropene | µg/L | 0.5 | <0.5 |
| | | 1,2-dibromoethane (EDB) | µg/L | 0.5 | <0.5 |
| | Halogenated Aliphatics | Dichlorodifluoromethane (CFC-12) | µg/L | 5 | <5 |
| | | Chloromethane | µg/L | 5 | <5 |
| | | Vinyl chloride (Chloroethene) | µg/L | 0.3 | <0.3 |
| | | Bromomethane | µg/L | 10 | <10 |
| | | Chloroethane | µg/L | 5 | <5 |
| | | Trichlorofluoromethane | µg/L | 1 | <1 |
| | | 1,1-dichloroethene | µg/L | 0.5 | <0.5 |
| | | Iodomethane | µg/L | 5 | <5 |
| | | Dichloromethane (Methylene chloride) | µg/L | 5 | <5 |
| | | Allyl chloride | µg/L | 2 | <2 |
| | | trans-1,2-dichloroethene | µg/L | 0.5 | <0.5 |
| | | 1,1-dichloroethane | µg/L | 0.5 | <0.5 |
| | | cis-1,2-dichloroethene | µg/L | 0.5 | <0.5 |
| | | Bromochloromethane | µg/L | 0.5 | <0.5 |
| | | 1,2-dichloroethane | µg/L | 0.5 | <0.5 |
| | | 1,1,1-trichloroethane | µg/L | 0.5 | <0.5 |
| | | 1,1-dichloropropene | µg/L | 0.5 | <0.5 |
| | | Carbon tetrachloride | µg/L | 0.5 | <0.5 |
| | | Dibromomethane | µg/L | 0.5 | <0.5 |
| | | Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | <0.5 |
| | | 1,1,2-trichloroethane | µg/L | 0.5 | <0.5 |
| | | 1,3-dichloropropane | µg/L | 0.5 | <0.5 |
| | | Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | <0.5 |
| | | 1,1,1,2-tetrachloroethane | µg/L | 0.5 | <0.5 |
| | | 1,1,2,2-tetrachloroethane | µg/L | 0.5 | <0.5 |
| | | 1,2,3-trichloropropane | µg/L | 0.5 | <0.5 |
| | | trans-1,4-dichloro-2-butene | µg/L | 1 | <1 |
| | | 1,2-dibromo-3-chloropropane | µg/L | 0.5 | <0.5 |
| | | Hexachlorobutadiene | µg/L | 0.5 | <0.5 |
| | Halogenated Aromatics | Chlorobenzene | µg/L | 0.5 | <0.5 |
| | | Bromobenzene | µg/L | 0.5 | <0.5 |
| | | 2-chlorotoluene | µg/L | 0.5 | <0.5 |
| | | 4-chlorotoluene | µg/L | 0.5 | <0.5 |
| | | 1,3-dichlorobenzene | µg/L | 0.5 | <0.5 |
| | | 1,4-dichlorobenzene | µg/L | 0.3 | <0.3 |
| | | 1,2-dichlorobenzene | µg/L | 0.5 | <0.5 |
| | | 1,2,4-trichlorobenzene | µg/L | 0.5 | <0.5 |
| | | 1,2,3-trichlorobenzene | µg/L | 0.5 | <0.5 |
| | Monocyclic Aromatic Hydrocarbons | Benzene | µg/L | 0.5 | <0.5 |
| | | Toluene | µg/L | 0.5 | <0.5 |

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

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

## VOCs in Water (continued)

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB335143.001 | Monocyclic Aromatic Hydrocarbons | Ethylbenzene | µg/L | 0.5 | <0.5 |
| | | m/p-xylene | µg/L | 1 | <1 |
| | | Styrene (Vinyl benzene) | µg/L | 0.5 | <0.5 |
| | | o-xylene | µg/L | 0.5 | <0.5 |
| | | Isopropylbenzene (Cumene) | µg/L | 0.5 | <0.5 |
| | | n-propylbenzene | µg/L | 0.5 | <0.5 |
| | | 1,3,5-trimethylbenzene | µg/L | 0.5 | <0.5 |
| | | tert-butylbenzene | µg/L | 0.5 | <0.5 |
| | | 1,2,4-trimethylbenzene | µg/L | 0.5 | <0.5 |
| | | sec-butylbenzene | µg/L | 0.5 | <0.5 |
| | | p-isopropyltoluene | µg/L | 0.5 | <0.5 |
| | | n-butylbenzene | µg/L | 0.5 | <0.5 |
| | Nitrogenous Compounds | Acrylonitrile | µg/L | 0.5 | <0.5 |
| | Oxygenated Compounds | Acetone (2-propanone) | µg/L | 10 | <10 |
| | | MtBE (Methyl-tert-butyl ether) | µg/L | 0.5 | <0.5 |
| | | Vinyl acetate* | µg/L | 10 | <10 |
| | | MEK (2-butanone) | µg/L | 10 | <10 |
| | | MIBK (4-methyl-2-pentanone) | µg/L | 5 | <5 |
| | | 2-hexanone (MBK) | µg/L | 5 | <5 |
| | Polycyclic VOCs | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 |
| | Sulphonated | Carbon disulfide | µg/L | 2 | <2 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 74 |
| | | d8-toluene (Surrogate) | % | - | 76 |
| | | Bromofluorobenzene (Surrogate) | % | - | 89 |
| | Trihalomethanes | Chloroform (THM) | µg/L | 0.5 | <0.5 |
| | | Bromodichloromethane (THM) | µg/L | 0.5 | <0.5 |
| | | Dibromochloromethane (THM) | µg/L | 0.5 | <0.5 |
| | | Bromoform (THM) | µg/L | 0.5 | <0.5 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB335143.001 | | TRH C6-C9 | µg/L | 40 | <40 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 74 |
| | | d8-toluene (Surrogate) | % | - | 76 |
| | | Bromofluorobenzene (Surrogate) | % | - | 89 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## Mercury (dissolved) in Water

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276726.001 | LB335038.014 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 194 | 86 |
| SE276733.005 | LB335038.023 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 0 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE276933.001 | LB335402.009 | Lead | µg/L | 1 | 3 | 3 | 54 | 1 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276683.005 | LB335041.024 | | TRH C10-C14 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C15-C28 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C29-C36 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C37-C40 | µg/L | 200 | <200 | <200 | 200 | 0 |
| | | | TRH C10-C40 | µg/L | 320 | <320 | <320 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | µg/L | 60 | <60 | <60 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | µg/L | 60 | <60 | <60 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | µg/L | 500 | <500 | <500 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | µg/L | 500 | <500 | <500 | 200 | 0 |

## VOCs in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276667.002 | LB335143.024 | Fumigants | 2,2-dichloropropane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2-dichloropropane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | cis-1,3-dichloropropene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | trans-1,3-dichloropropene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2-dibromoethane (EDB) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Halogenated | Dichlorodifluoromethane (CFC-12) | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | Aliphatics | Chloromethane | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | | Vinyl chloride (Chloroethene) | µg/L | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | | Bromomethane | µg/L | 10 | <10 | <10 | 200 | 0 |
| | | | Chloroethane | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | | Trichlorofluoromethane | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | 1,1-dichloroethene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Iodomethane | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | | Dichloromethane (Methylene chloride) | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | | Allyl chloride | µg/L | 2 | <2 | <2 | 200 | 0 |
| | | | trans-1,2-dichloroethene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,1-dichloroethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | cis-1,2-dichloroethene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Bromochloromethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2-dichloroethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,1,1-trichloroethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,1-dichloropropene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Carbon tetrachloride | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dibromomethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,1,2-trichloroethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,3-dichloropropane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Tetrachloroethene (Perchloroethylene,PCE) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,1,1,2-tetrachloroethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,1,2,2-tetrachloroethane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2,3-trichloropropane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | trans-1,4-dichloro-2-butene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | 1,2-dibromo-3-chloropropane | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Hexachlorobutadiene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Halogenated | Chlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatics | Bromobenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 2-chlorotoluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

## VOCs in Water (continued)

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276667.002 | LB335143.024 | Halogenated | 4-chlorotoluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatics | 1,3-dichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,4-dichlorobenzene | µg/L | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | | 1,2-dichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2,4-trichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2,3-trichlorobenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | Styrene (Vinyl benzene) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Isopropylbenzene (Cumene) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | n-propylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,3,5-trimethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | tert-butylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | 1,2,4-trimethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | sec-butylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | p-isopropyltoluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | n-butylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Nitrogenous | Acrylonitrile | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Compounds | 2-nitropropane | µg/L | 100 | <100 | <100 | 200 | 0 |
| | | Oxygenated | Acetone (2-propanone) | µg/L | 10 | <10 | <10 | 200 | 0 |
| | | Compounds | MtBE (Methyl-tert-butyl ether) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Vinyl acetate* | µg/L | 10 | <10 | <10 | 200 | 0 |
| | | | MEK (2-butanone) | µg/L | 10 | <10 | <10 | 200 | 0 |
| | | | MIBK (4-methyl-2-pentanone) | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | | 2-hexanone (MBK) | µg/L | 5 | <5 | <5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Sulphonated | Carbon disulfide | µg/L | 2 | <2 | <2 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 7.3 | 9.4 | 30 | 25 |
| | | | d8-toluene (Surrogate) | µg/L | - | 6.3 | 10.5 | 30 | 50 ① |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 9.4 | 10.0 | 30 | 6 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |
| | | | Total VOC | µg/L | 10 | <10 | <10 | 200 | 0 |
| | | Trihalomethan | Chloroform (THM) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | es | Bromodichloromethane (THM) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Dibromochloromethane (THM) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Bromoform (THM) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| SE276733.004 | LB335143.023 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | m/p-xylene | µg/L | 1 | <1 | <1 | 200 | 0 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 11.1 | 9.2 | 30 | 19 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.5 | 6.6 | 30 | 45 ① |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 8.7 | 9.3 | 30 | 7 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | <3 | 200 | 0 |

## Volatile Petroleum Hydrocarbons in Water

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276667.002 | LB335143.024 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 7.3 | 9.4 | 30 | 25 |
| | | | d8-toluene (Surrogate) | µg/L | - | 6.3 | 10.5 | 30 | 50 ① |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 9.4 | 10.0 | 30 | 6 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |
| SE276733.004 | LB335143.023 | | TRH C6-C10 | µg/L | 50 | <50 | <50 | 200 | 0 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | <40 | 200 | 0 |

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE276733.004 | LB335143.023 | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 11.1 | 9.2 | 30 | 19 |
| | | | d8-toluene (Surrogate) | µg/L | - | 10.5 | 6.6 | 30 | 45 ① |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 8.7 | 9.3 | 30 | 7 |
| | | VPH F Bands | Benzene (F0) | µg/L | 0.5 | <0.5 | <0.5 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | <50 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Low Level PAH (Poly Aromatic Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335041.002 | | Naphthalene | µg/L | 0.02 | 41 | 40 | 60 - 140 | 103 |
| | | Acenaphthylene | µg/L | 0.01 | 41 | 40 | 60 - 140 | 101 |
| | | Acenaphthene | µg/L | 0.01 | 44 | 40 | 60 - 140 | 110 |
| | | Phenanthrene | µg/L | 0.01 | 37 | 40 | 60 - 140 | 93 |
| | | Anthracene | µg/L | 0.01 | 35 | 40 | 60 - 140 | 89 |
| | | Fluoranthene | µg/L | 0.01 | 38 | 40 | 60 - 140 | 95 |
| | | Pyrene | µg/L | 0.01 | 38 | 40 | 60 - 140 | 95 |
| | | Benzo(a)pyrene | µg/L | 0.01 | 41 | 40 | 60 - 140 | 102 |
| | Surrogates | d14-p-terphenyl (Surrogate) | % | - | 1.0 | 1.08 | 39 - 130 | 88 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335402.002 | | Arsenic | µg/L | 1 | 19 | 20 | 80 - 120 | 95 |
| | | Cadmium | µg/L | 0.1 | 21 | 20 | 80 - 120 | 106 |
| | | Chromium | µg/L | 1 | 21 | 20 | 80 - 120 | 107 |
| | | Copper | µg/L | 1 | 22 | 20 | 80 - 120 | 110 |
| | | Lead | µg/L | 1 | 22 | 20 | 80 - 120 | 108 |
| | | Nickel | µg/L | 1 | 21 | 20 | 80 - 120 | 104 |
| | | Zinc | µg/L | 5 | 23 | 20 | 80 - 120 | 116 |

## TRH (Total Recoverable Hydrocarbons) in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335041.002 | | TRH C10-C14 | µg/L | 50 | 1200 | 1200 | 60 - 140 | 98 |
| | | TRH C15-C28 | µg/L | 200 | 1400 | 1200 | 60 - 140 | 114 |
| | | TRH C29-C36 | µg/L | 200 | 1300 | 1200 | 60 - 140 | 112 |
| | TRH F Bands | TRH >C10-C16 | µg/L | 60 | 1300 | 1200 | 60 - 140 | 107 |
| | | TRH >C16-C34 (F3) | µg/L | 500 | 1400 | 1200 | 60 - 140 | 117 |
| | | TRH >C34-C40 (F4) | µg/L | 500 | 670 | 600 | 60 - 140 | 112 |

## Ultra Low Level Per- and Polyfluoroalkyl Substances (PFAS) in Water

Method: ME-(AU)-[ENV]AN404

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335068.002 | | Perfluoroheptanoic acid (PFHpA) | µg/L | 0.001 | 0.017 | 0.02 | 40 - 160 | 85 |
| | | Perfluorooctanoic acid (PFOA) | µg/L | 0.001 | 0.018 | 0.02 | 40 - 160 | 92 |
| | | Perfluorononanoic acid (PFNA) | µg/L | 0.001 | 0.020 | 0.02 | 40 - 160 | 98 |
| | | Perfluorodecanoic acid (PFDA) | µg/L | 0.001 | 0.019 | 0.02 | 40 - 160 | 97 |
| | | Perfluoroundecanoic acid (PFUnDA) | µg/L | 0.001 | 0.018 | 0.02 | 40 - 160 | 89 |
| | | Perfluorotetradecanoic acid (PFTeDA) | µg/L | 0.001 | 0.021 | 0.02 | 40 - 160 | 106 |
| | | Perfluorooctane sulfonic acid (PFOS) | µg/L | 0.0002 | 0.015 | 0.02 | 40 - 160 | 75 |
| | | Perfluorooctane sulfonamide (FOSA) | µg/L | 0.005 | 0.018 | 0.02 | 40 - 160 | 91 |

## VOCs in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335143.002 | Halogenated | 1,1-dichloroethene | µg/L | 0.5 | 36 | 45.45 | 60 - 140 | 79 |
| | Aliphatics | 1,2-dichloroethane | µg/L | 0.5 | 37 | 45.45 | 60 - 140 | 81 |
| | | Trichloroethene (Trichloroethylene,TCE) | µg/L | 0.5 | 34 | 45.45 | 60 - 140 | 76 |
| | Halogenated | Chlorobenzene | µg/L | 0.5 | 63 | 45.45 | 60 - 140 | 139 |
| | Monocyclic | Benzene | µg/L | 0.5 | 29 | 45.45 | 60 - 140 | 64 |
| | Aromatic | Toluene | µg/L | 0.5 | 31 | 45.45 | 60 - 140 | 68 |
| | | Ethylbenzene | µg/L | 0.5 | 51 | 45.45 | 60 - 140 | 112 |
| | | m/p-xylene | µg/L | 1 | 100 | 90.9 | 60 - 140 | 113 |
| | | o-xylene | µg/L | 0.5 | 53 | 45.45 | 60 - 140 | 117 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 7.3 | 10 | 60 - 140 | 73 |
| | | d8-toluene (Surrogate) | µg/L | - | 7.2 | 10 | 70 - 130 | 72 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 10 | 70 - 130 | 112 |
| | Trihalomethan | Chloroform (THM) | µg/L | 0.5 | 36 | 45.45 | 60 - 140 | 80 |

## Volatile Petroleum Hydrocarbons in Water

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335143.002 | | TRH C6-C10 | µg/L | 50 | 780 | 946.63 | 60 - 140 | 82 |
| | | TRH C6-C9 | µg/L | 40 | 690 | 818.71 | 60 - 140 | 84 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 7.3 | 10 | 60 - 140 | 73 |
| | | d8-toluene (Surrogate) | µg/L | - | 7.2 | 10 | 70 - 130 | 72 |
| | | Bromofluorobenzene (Surrogate) | µg/L | - | 11 | 10 | 70 - 130 | 112 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

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

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB335143.002 | VPH F Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | 510 | 639.67 | 60 - 140 | 80 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

## Mercury (dissolved) in Water

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE276667.001 | LB335038.004 | Mercury | mg/L | 0.0001 | 0.0020 | <0.0001 | 0.008 | 95 |

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE276667.001 | LB335402.004 | Arsenic | µg/L | 1 | 32 | 9 | 20 | 112 |
| | | Cadmium | µg/L | 0.1 | 19 | <0.1 | 20 | 96 |
| | | Chromium | µg/L | 1 | 21 | <1 | 20 | 101 |
| | | Copper | µg/L | 1 | 18 | <1 | 20 | 90 |
| | | Lead | µg/L | 1 | 21 | <1 | 20 | 103 |
| | | Nickel | µg/L | 1 | 61 | 45 | 20 | 76 |
| | | Zinc | µg/L | 5 | 25 | <5 | 20 | 103 |

## VOCs in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE276792.013 | LB335143.025 | Monocyclic | Benzene | µg/L | 0.5 | <0.5 | 45.45 | 113 |
| | | Aromatic | Toluene | µg/L | 0.5 | <0.5 | 45.45 | 120 |
| | | | Ethylbenzene | µg/L | 0.5 | <0.5 | 45.45 | 117 |
| | | | m/p-xylene | µg/L | 1 | <1 | 90.9 | 117 |
| | | | o-xylene | µg/L | 0.5 | <0.5 | 45.45 | 118 |
| | | Polycyclic | Naphthalene (VOC)* | µg/L | 0.5 | <0.5 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 7.8 | - | 110 |
| | | | d8-toluene (Surrogate) | µg/L | - | 6.7 | - | 108 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 9.3 | - | 113 |
| | | Totals | Total BTEX | µg/L | 3 | <3 | - | - |

## Volatile Petroleum Hydrocarbons in Water

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

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE276792.013 | LB335143.025 | | TRH C6-C10 | µg/L | 50 | <50 | 946.63 | 104 |
| | | | TRH C6-C9 | µg/L | 40 | <40 | 818.71 | 105 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | µg/L | - | 7.8 | - | 110 |
| | | | d8-toluene (Surrogate) | µg/L | - | 6.7 | - | 108 |
| | | | Bromofluorobenzene (Surrogate) | µg/L | - | 9.3 | - | 113 |
| | | VPH F | Benzene (F0) | µg/L | 0.5 | <0.5 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | µg/L | 50 | <50 | 639.67 | 103 |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| *** | Indicates that both * and ** apply. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to relevant report comments for further information. |

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

# SAMPLE RECEIPT ADVICE

SE276667

## CLIENT DETAILS

| | |
|---|---|
| Contact | Harrison Wood |
| Client | SMEC Australia Pty Ltd |
| Address | 9 Bentham Place<br>Castle Hill<br>NSW 2154 |
| Telephone | 0411 754 451 |
| Facsimile | 02 9925 5566 |
| Email | harrison.wood@smec.com |
| Project | **30013640 Bankstown New Hostpital DSI** |
| Order Number | **30013640** |
| Samples | 7 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Shane McDermott |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Thu 9/1/2025 |
| Report Due | Mon 20/1/2025 |
| SGS Reference | **SE276667** |

## SUBMISSION DETAILS

This is to confirm that 7 samples were received on Thursday 9/1/2025. Results are expected to be ready by COB Monday 20/1/2025. Please quote SGS reference SE276667 when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Sample counts by matrix | 7 Water | Type of documentation received | COC |
| Date documentation received | 13/1/2025@5:04pm | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 4°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice | Samples clearly labelled | Yes |
| Complete documentation received | Yes | Number of eskies/boxes received | |

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

## COMMENTS

Sample #4 - QA01- PFAS bottle not provided and therefore PFAS ultra low level won't be analysed.

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# SAMPLE RECEIPT ADVICE

SE276667

CLIENT DETAILS

Client SMEC Australia Pty Ltd

Project 30013640 Bankstown New Hostpital DSI

SUMMARY OF ANALYSIS

| No. | Sample ID | Low Level PAH (Poly Aromatic Hydrocarbons) in | Mercury (dissolved) in Water | Metals in Water (Dissolved) by ICPOES | Trace Metals (Dissolved) in Water by ICPMS | TRH (Total Recoverable Hydrocarbons) in Water | Ultra Low Level Per- and Polyfluoroalkyl Substances | VOCs in Water | Volatile Petroleum Hydrocarbons in Water |
|---|---|---|---|---|---|---|---|---|---|
| 001 | BH101 | 23 | 1 | 1 | 7 | 9 | 57 | 77 | 7 |
| 002 | BH102 | 23 | 1 | 1 | 7 | 9 | 57 | 77 | 7 |
| 003 | BH103 | 23 | 1 | 1 | 7 | 9 | 57 | 77 | 7 |
| 004 | QA01 | 23 | 1 | 1 | 7 | 9 | - | 77 | 7 |
| 005 | Trip Spike | - | - | - | - | - | - | 11 | - |
| 006 | Trip Blank | - | - | - | - | 9 | - | 11 | 7 |
| 007 | PFAS BLANK | - | - | - | - | - | 57 | - | - |

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

source: Sydney.pdf page: 1 SGS Ref: SE276667_COC

smec
an ⊞ company

# CHAIN OF CUSTODY FORM

**SMEC Office:** North Sydney

| | | | | | |
|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hostpital DSI | | | LABORATORY: | SGS Australia |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | Elsa Miguel Barritt |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | Unit 16/33 Maddox Street, Alexandria New South Wales 2015 |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | SMEC SGS 2024 PL |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | DESPATCH COURIER (consignment reference): | |
| DATE(s) SAMPLED: | 9-Jan-25 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) |
| DATE/TIME OF DEPARTURE FROM SITE: | 09/01/24 at 15:30pm | DATE/TIME: | 09/01/2025 \| 5:00 PM | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com<br>manuel.fernandez@smec.com | RECEIVED BY: | Joel K | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 9/1/25 @ 3:13 | | |

E-MAILED 13/1/25 @ 5:04 pm

SGS EHS Sydney COC
**SE276667**

SPECIAL LABORATORY INSTRUCTIONS:

Requested limits of reporting are: ■ STANDARD □ SPECIFIED IN QUOTATION □ SPECIFIED IN CoC (note: PM/TL to review)

Please ensure all samples are analysed within respective holding times. □ Note: Short holding times apply to some analytes.

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | PFAS (low level)<br>- PFOS 0.00023ug/l<br>- PFOA 19ug/l) | PAH (Low level low level)<br>- BaP 0.1ug/l<br>- Anthracene 0.01ug/l<br>- Fluoranthene 1ug/l<br>- Phenanthrene 0.6ug/l | Metals (Field Filtered) some may require low LOR:<br>- As – 2.3 ug/l<br>- Cd – 0.7ug/l<br>- Cr – 27ug/l<br>- Cu – 1.3ug/l<br>- Pb – 4.4ug/l<br>- Hg – 0.1ug/l<br>- Ni – 7ug/l<br>- Zn – 8ug/l | Hardness as CaC03 | VOC | TRH/BTEX | Comment |
| 1 | BH101 | 9/01/2025 | Water | 1 Plastic Bottle, 1 Glass Bottle, 2 Vials | 2 | X | X | X | X | X | X | |
| 2 | BH102 | 9/01/2025 | Water | 1 Plastic Bottle, 1 Glass Bottle, 2 Vials | 2 | X | X | X | X | X | X | |
| 3 | BH103 | 9/01/2025 | Water | 1 Plastic Bottle, 1 Glass Bottle, 2 Vials | 1 | X | X | X | X | X | X | |
| 4 | QA01 | 9/01/2025 | Water | 1 Plastic Bottle, 1 Glass Bottle, 2 Vials | 2 | X | X | X | X | X | X | |
| 5 | Trip Spike | 9/01/2025 | Water | 1 Vial | 1 | | | | | | X | |
| 6 | Trip Blank | 9/01/2025 | Water | 1 Vial | 1 | | | | | | X | |
| 7 | PFAS BLANK | 9/01/2025 | Water | 1 Plastic Bottle | 2 | X | | | | | | |
| | | | | TOTAL | 7 | 5 | 4 | 4 | 14 | | | |

Common Abbreviations: S - Soil, W - Water, M - Material, UP - Unpreserved, P - Preserved, PM- Project Manager, TL - Technical Lead, LOR - Limits of reporting, CoC - Chain of custody

## Luong, Thi Song Van (Alexandria)

**From:** AU.SampleReceipt.Sydney, AU (Sydney)
**Sent:** Wednesday, 15 January 2025 12:23 PM
**To:** Harrison WOOD; Manuel FERNANDEZ
**Cc:** AU.Environmental.Sydney, AU (Sydney); AU.SampleReceipt.Sydney, AU (Sydney)
**Subject:** RE: [EXTERNAL] RE: SE276667 - SMEC- PFAS ULL testing - QA01 insufficient samples

Hi Harrison,

Also, on this sample QA01 only 200mL unpreserved water sample provided for both TRH and PAH low level testing. However we would need at least 500mL to run PAH low level hence insufficient sample as well.

Would you like us to analyse PAH at standard level instead?

Please let us know as soon as possible. Thank you.

Kind regards,

***Please kindly Reply to All for a timely response. Thank you!***

**Van Luong**
**Industries & Environment**
Sample Receipt Team Lead

**SGS Australia Pty Ltd**
Unit 16, 33 Maddox St
Alexandria NSW 2015
Phone: +61 2 8594 0400
Email: Thisongvan.Luong@sgs.com
Visit: https://www.sgs.com/en-au

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---

**From:** AU.SampleReceipt.Sydney, AU (Sydney) <AU.SampleReceipt.Sydney@sgs.com>
**Sent:** Wednesday, January 15, 2025 11:29 AM
**To:** Harrison WOOD <Harrison.Wood@smec.com>; Manuel FERNANDEZ <Manuel.Fernandez@smec.com>
**Cc:** AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>; AU.SampleReceipt.Sydney, AU (Sydney) <AU.SampleReceipt.Sydney@sgs.com>
**Subject:** RE: [EXTERNAL] RE: SE276667 - SMEC- PFAS ULL testing - QA01 insufficient samples

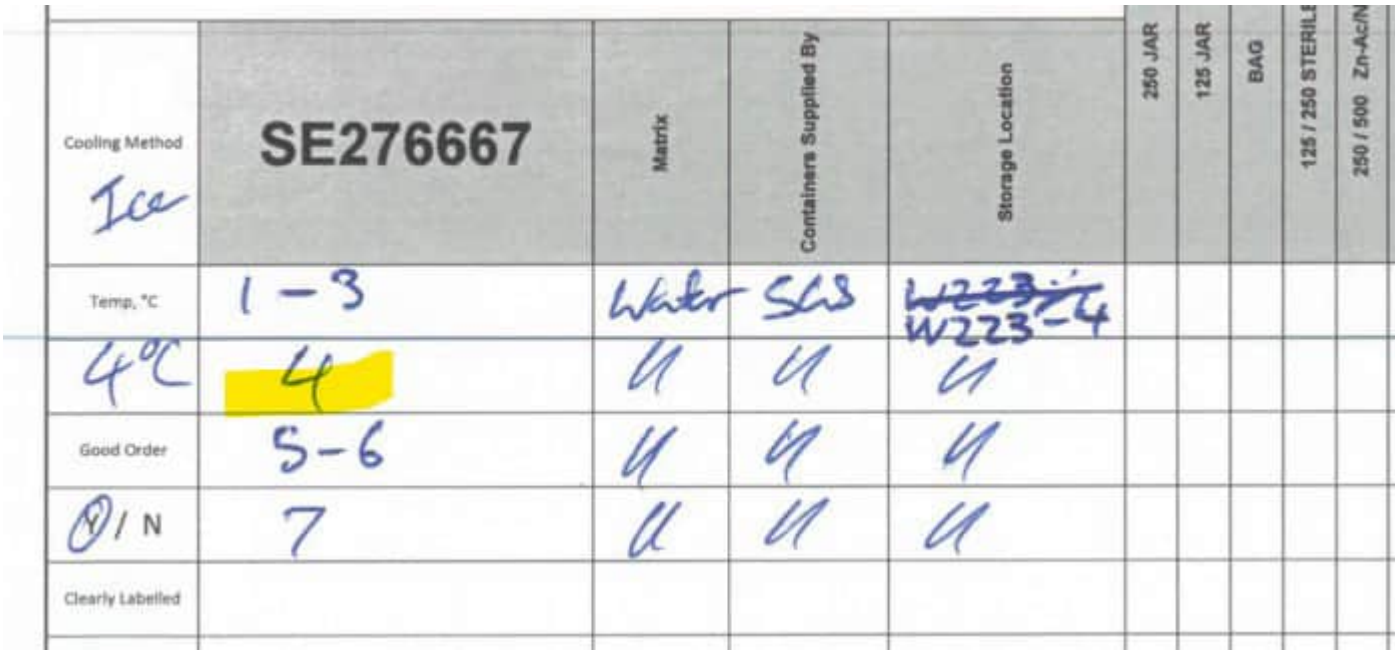
Hi Harrison,

Thank you for your reply.

This information was missed on yesterday SRA however our bottle map information (BMAP) showed no PFAS bottle was received for Sample #4 as highlighted below. Sorry about that.

I have attached a copy of the BMAP in this email as well for more details.

Please let us know how you would like to proceed.



| Cooling Method: Ice | SE276667 | Matrix | Containers Supplied By | Storage Location | 250 JAR | 125 JAR | BAG | 125 / 250 STERILE | 250 / 500 Zn-Ac/N |
|---|---|---|---|---|---|---|---|---|---|
| Temp, °C | 1 – 3 | Water | SGS | ~~W223-4~~ W223-4 | | | | | |
| 4°C | 4 | " | " | " | | | | | |
| Good Order | 5 – 6 | " | " | " | | | | | |
| Y / N | 7 | " | " | " | | | | | |
| Clearly Labelled | | | | | | | | | |

Kind regards,

***Please kindly Reply to All for a timely response. Thank you!***

**Van Luong**
**Industries & Environment**
Sample Receipt Team Lead

**SGS Australia Pty Ltd**
Unit 16, 33 Maddox St
Alexandria NSW 2015
Phone: +61 2 8594 0400
Email: Thisongvan.Luong@sgs.com
Visit: https://www.sgs.com/en-au

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---

**From:** Harrison WOOD <Harrison.Wood@smec.com>
**Sent:** Wednesday, January 15, 2025 11:11 AM
**To:** Luong, Thi Song Van (Alexandria) <ThiSongVan.Luong@sgs.com>; Manuel FERNANDEZ <Manuel.Fernandez@smec.com>
**Cc:** AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>; AU.SampleReceipt.Sydney, AU (Sydney) <AU.SampleReceipt.Sydney@sgs.com>
**Subject:** [EXTERNAL] RE: SE276667 - SMEC- PFAS ULL testing - QA01 insufficient samples

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi Van,

There should definitely be a QA01 bottle for PFAS Ultra Trace analysis in there, I received an SRN yesterday that did not mention any missing bottles, could you please have a look in the lab again if possible.

Thank you

Kind regards

**Harrison Wood**
Scientist - Environment
**E** Harrison.Wood@smec.com
Cammeraygal Country, Level 7, 40 Mount Street, North Sydney, NSW, 2060, Australia

---

**From:** Luong, Thi Song Van (Alexandria) <ThiSongVan.Luong@sgs.com>
**Sent:** Wednesday, 15 January 2025 11:05 AM
**To:** Harrison WOOD <Harrison.Wood@smec.com>; Manuel FERNANDEZ <Manuel.Fernandez@smec.com>
**Cc:** AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>; AU.SampleReceipt.Sydney, AU (Sydney) <AU.SampleReceipt.Sydney@sgs.com>
**Subject:** SE276667 - SMEC- PFAS ULL testing - QA01 insufficient samples

Hi All,

PFAS bottle was not provided for QA01 sample.

Please advise if it will be sent for PFAS Ultra low level analysis.

Thank you.

Kind regards,

***Please kindly Reply to All for a timely response. Thank you!***

**Van Luong**
**Industries & Environment**
Sample Receipt Team Lead

**SGS Australia Pty Ltd**
Unit 16, 33 Maddox St
Alexandria NSW 2015
Phone: +61 2 8594 0400
Email: Thisongvan.Luong@sgs.com
Visit: https://www.sgs.com/en-au

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**SMEC Australia Pty Ltd**
**Level 6, 76 Berry Street**
**North Sydney**
**NSW 2060**

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**Attention:** **Manuel Fernandez**

**Report** **1173417-S**
Project name HEALTH INFRASTRUCTURE
Project ID 30013640
Received Date Dec 17, 2024

| **Client Sample ID** | | | **QA03-A** | **QA04-A** |
|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **S24-De0052979** | **S24-De0052980** |
| **Date Sampled** | | | **Dec 09, 2024** | **Dec 10, 2024** |
| 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 |
| 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 | % | 95 | INT |
| **Total Recoverable Hydrocarbons - 2013 NEPM Fractions** | | | | |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 | < 0.5 |
| **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 |

| Client Sample ID | | | QA03-A | QA04-A |
|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S24-De0052979 | S24-De0052980 |
| Date Sampled | | | Dec 09, 2024 | Dec 10, 2024 |
| Test/Reference | LOR | Unit | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | |
| 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 | % | 105 | 74 |
| p-Terphenyl-d14 (surr.) | 1 | % | 85 | 72 |
| **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 | % | 69 | 76 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 92 | 81 |
| **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 | % | 69 | 76 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 92 | 81 |

| Client Sample ID | | | QA03-A | QA04-A |
|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S24-De0052979 | S24-De0052980 |
| Date Sampled | | | Dec 09, 2024 | Dec 10, 2024 |
| Test/Reference | LOR | Unit | | |
| **Heavy Metals** | | | | |
| Arsenic | 2 | mg/kg | 7.0 | 15 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 14 | 25 |
| Copper | 5 | mg/kg | 15 | 32 |
| Lead | 5 | mg/kg | 34 | 40 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 6.7 | 13 |
| Zinc | 5 | mg/kg | 56 | 52 |
| **Sample Properties** | | | | |
| % Moisture | 1 | % | 9.7 | 19 |

## 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 | Dec 31, 2024 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Dec 31, 2024 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Dec 31, 2024 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Sydney | Dec 31, 2024 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Polycyclic Aromatic Hydrocarbons | Sydney | Dec 31, 2024 | 14 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| Organochlorine Pesticides | Sydney | Dec 31, 2024 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Polychlorinated Biphenyls | Sydney | Dec 31, 2024 | 28 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Metals M8 | Sydney | Dec 31, 2024 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| % Moisture | Sydney | Dec 20, 2024 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

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| Site# 1254 | Site# 25403 | Site# 18217 | Site# 25466 | Site# 20794 & 2780 | Site# 25079 |

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**Company Name:** SMEC Australia Pty Ltd (SYD)
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**Project Name:** HEALTH INFRASTRUCTURE
**Project ID:** 30013640

**Order No.:**
**Report #:** 1173417
**Phone:** 02 9925 5555
**Fax:** 02 9925 5566

**Received:** Dec 17, 2024 10:00 AM
**Due:** Jan 10, 2025
**Priority:** 15 Day
**Contact Name:** Manuel Fernandez

**Eurofins Analytical Services Manager : Adam Bateup**

| Sample Detail | | | | | | HOLD* | Moisture Set | Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8 |
|---|---|---|---|---|---|---|---|---|
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | X | X | X |
| **External Laboratory** | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | |
| 1 | QA03-A | Dec 09, 2024 | | Soil | S24-De0052979 | | X | X |
| 2 | QA04-A | Dec 10, 2024 | | Soil | S24-De0052980 | | X | X |
| 3 | QA01-A | Dec 09, 2024 | | Soil | S24-De0052981 | X | | |
| 4 | QA02-A | Dec 09, 2024 | | Soil | S24-De0052982 | X | | |
| 5 | QA05-A | Dec 10, 2024 | | Soil | S24-De0052983 | X | | |
| 6 | QA06-A | Dec 11, 2024 | | Soil | S24-De0052984 | X | | |
| 7 | QA07-A | Dec 11, 2024 | | Soil | S24-De0052985 | X | | |
| 8 | QA08-A | Dec 11, 2024 | | Soil | S24-De0052986 | X | | |
| **Test Counts** | | | | | | 6 | 2 | 2 |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

### Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

### Units

| | | |
|---|---|---|
| **mg/kg:** milligrams per kilogram | **mg/L:** milligrams per litre | **ppm:** parts per million |
| **µg/L:** micrograms per litre | **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 |
| **CFU:** Colony Forming Unit | **Colour:** Pt-Co Units (CU) | |

### Terms

| | |
|---|---|
| **APHA** | American Public Health Association |
| **CEC** | Cation Exchange Capacity |
| **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 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. |
| **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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria. |
| **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 6.0 |
| **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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

### QC Data General Comments

1. Where a result is reported as 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 are 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 | |
| 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** | | | | | | | |
| **Total Recoverable Hydrocarbons - 2013 NEPM Fractions** | | | | | | | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| 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** | | | | | | | |
| **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 | |
| 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** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| 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** | | | | | | | |
| **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 | |
| 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 | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C9 | % | 76 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 120 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 78 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 117 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | % | 90 | | | 70-130 | Pass | |
| Toluene | % | 88 | | | 70-130 | Pass | |
| Ethylbenzene | % | 96 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 98 | | | 70-130 | Pass | |
| o-Xylene | % | 97 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 98 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Total Recoverable Hydrocarbons - 2013 NEPM Fractions** | | | | | | | |
| Naphthalene | % | 96 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | % | 101 | | | 70-130 | Pass | |
| Acenaphthylene | % | 96 | | | 70-130 | Pass | |
| Anthracene | % | 106 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 94 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 101 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 102 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 91 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 101 | | | 70-130 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Chrysene | % | 92 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 94 | | | 70-130 | Pass | |
| Fluoranthene | % | 101 | | | 70-130 | Pass | |
| Fluorene | % | 97 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 94 | | | 70-130 | Pass | |
| Naphthalene | % | 96 | | | 70-130 | Pass | |
| Phenanthrene | % | 93 | | | 70-130 | Pass | |
| Pyrene | % | 97 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 93 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 103 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 94 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 112 | | | 70-130 | Pass | |
| a-HCH | % | 97 | | | 70-130 | Pass | |
| Aldrin | % | 91 | | | 70-130 | Pass | |
| b-HCH | % | 110 | | | 70-130 | Pass | |
| d-HCH | % | 96 | | | 70-130 | Pass | |
| Dieldrin | % | 101 | | | 70-130 | Pass | |
| Endosulfan I | % | 86 | | | 70-130 | Pass | |
| Endosulfan II | % | 104 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 96 | | | 70-130 | Pass | |
| Endrin | % | 107 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 77 | | | 70-130 | Pass | |
| Endrin ketone | % | 98 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 94 | | | 70-130 | Pass | |
| Heptachlor | % | 98 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 109 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 88 | | | 70-130 | Pass | |
| Methoxychlor | % | 110 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| Aroclor-1016 | % | 100 | | | 70-130 | Pass | |
| Aroclor-1260 | % | 88 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | % | 71 | | | 70-130 | Pass | |
| Acenaphthylene | % | 73 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 71 | | | 70-130 | Pass | |
| Fluoranthene | % | 75 | | | 70-130 | Pass | |
| Fluorene | % | 71 | | | 70-130 | Pass | |
| Naphthalene | % | 74 | | | 70-130 | Pass | |
| Phenanthrene | % | 74 | | | 70-130 | Pass | |
| Pyrene | % | 75 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 72 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 72 | | | 70-130 | Pass | |
| Aldrin | % | 71 | | | 70-130 | Pass | |
| b-HCH | % | 72 | | | 70-130 | Pass | |
| Endosulfan I | % | 73 | | | 70-130 | Pass | |
| Endrin | % | 73 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 72 | | | 70-130 | Pass | |
| Heptachlor | % | 73 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobenzene | | | % | 73 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | | | |
| Aroclor-1260 | | | % | 72 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | | | | | | |
| Arsenic | | | % | 101 | | | 80-120 | Pass | |
| Cadmium | | | % | 97 | | | 80-120 | Pass | |
| Chromium | | | % | 98 | | | 80-120 | Pass | |
| Copper | | | % | 96 | | | 80-120 | Pass | |
| Lead | | | % | 104 | | | 80-120 | Pass | |
| Mercury | | | % | 98 | | | 80-120 | Pass | |
| Nickel | | | % | 98 | | | 80-120 | Pass | |
| Zinc | | | % | 96 | | | 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 C10-C14 | S24-De0028806 | NCP | % | 76 | | | 70-130 | Pass | |
| TRH >C10-C16 | S24-De0028806 | NCP | % | 78 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | | | | | |
| Acenaphthene | S24-De0054603 | NCP | % | 92 | | | 70-130 | Pass | |
| Acenaphthylene | S24-De0054603 | NCP | % | 87 | | | 70-130 | Pass | |
| Anthracene | S24-De0054603 | NCP | % | 87 | | | 70-130 | Pass | |
| Benz(a)anthracene | S24-De0054603 | NCP | % | 84 | | | 70-130 | Pass | |
| Benzo(a)pyrene | S24-De0054603 | NCP | % | 91 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | S24-De0054603 | NCP | % | 95 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | S24-De0054603 | NCP | % | 94 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | S24-De0054603 | NCP | % | 92 | | | 70-130 | Pass | |
| Chrysene | S24-De0054603 | NCP | % | 92 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | S24-De0054603 | NCP | % | 89 | | | 70-130 | Pass | |
| Fluoranthene | S24-De0054603 | NCP | % | 86 | | | 70-130 | Pass | |
| Fluorene | S24-De0054603 | NCP | % | 89 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | S24-De0054603 | NCP | % | 90 | | | 70-130 | Pass | |
| Naphthalene | S24-De0054603 | NCP | % | 86 | | | 70-130 | Pass | |
| Phenanthrene | S24-De0054603 | NCP | % | 81 | | | 70-130 | Pass | |
| Pyrene | S24-De0054603 | NCP | % | 89 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | S24-De0054603 | NCP | % | 83 | | | 70-130 | Pass | |
| 4.4'-DDD | S24-De0054603 | NCP | % | 83 | | | 70-130 | Pass | |
| 4.4'-DDE | S24-De0054603 | NCP | % | 86 | | | 70-130 | Pass | |
| 4.4'-DDT | S24-De0054603 | NCP | % | 94 | | | 70-130 | Pass | |
| a-HCH | S24-De0054603 | NCP | % | 85 | | | 70-130 | Pass | |
| Aldrin | S24-De0054603 | NCP | % | 81 | | | 70-130 | Pass | |
| b-HCH | S24-De0054603 | NCP | % | 100 | | | 70-130 | Pass | |
| d-HCH | S24-De0054603 | NCP | % | 76 | | | 70-130 | Pass | |
| Dieldrin | S24-De0054603 | NCP | % | 82 | | | 70-130 | Pass | |
| Endosulfan I | S24-De0054603 | NCP | % | 79 | | | 70-130 | Pass | |
| Endosulfan II | S24-De0054603 | NCP | % | 94 | | | 70-130 | Pass | |
| Endosulfan sulphate | S24-De0054603 | NCP | % | 87 | | | 70-130 | Pass | |
| Endrin | S24-De0054603 | NCP | % | 89 | | | 70-130 | Pass | |
| Endrin aldehyde | S24-De0054603 | NCP | % | 84 | | | 70-130 | Pass | |
| Endrin ketone | S24-De0054603 | NCP | % | 93 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| g-HCH (Lindane) | S24-De0054603 | NCP | % | 86 | | | 70-130 | Pass | |
| Heptachlor | S24-De0054603 | NCP | % | 85 | | | 70-130 | Pass | |
| Heptachlor epoxide | S24-De0054603 | NCP | % | 84 | | | 70-130 | Pass | |
| Hexachlorobenzene | S24-De0054603 | NCP | % | 84 | | | 70-130 | Pass | |
| Methoxychlor | S24-De0054603 | NCP | % | 94 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | Result 1 | | | | | |
| Aroclor-1016 | S24-De0054603 | NCP | % | 87 | | | 70-130 | Pass | |
| Aroclor-1260 | S24-De0054603 | NCP | % | 80 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | S24-De0045711 | NCP | % | 101 | | | 75-125 | Pass | |
| Cadmium | S24-De0045711 | NCP | % | 101 | | | 75-125 | Pass | |
| Chromium | S24-De0045711 | NCP | % | 92 | | | 75-125 | Pass | |
| Copper | S24-De0045711 | NCP | % | 81 | | | 75-125 | Pass | |
| Lead | S24-De0045711 | NCP | % | 97 | | | 75-125 | Pass | |
| Mercury | S24-De0045711 | NCP | % | 101 | | | 75-125 | Pass | |
| Nickel | S24-De0045711 | NCP | % | 92 | | | 75-125 | Pass | |
| Zinc | S25-Ja0004833 | NCP | % | 103 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C9 | S24-De0052980 | CP | % | 78 | | | 70-130 | Pass | |
| TRH C6-C10 | S24-De0052980 | CP | % | 80 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | S24-De0052980 | CP | % | 73 | | | 70-130 | Pass | |
| Toluene | S24-De0052980 | CP | % | 79 | | | 70-130 | Pass | |
| Ethylbenzene | S24-De0052980 | CP | % | 85 | | | 70-130 | Pass | |
| m&p-Xylenes | S24-De0052980 | CP | % | 92 | | | 70-130 | Pass | |
| o-Xylene | S24-De0052980 | CP | % | 89 | | | 70-130 | Pass | |
| Xylenes - Total* | S24-De0052980 | CP | % | 91 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons - 2013 NEPM Fractions** | | | | Result 1 | | | | | |
| Naphthalene | S24-De0052980 | CP | % | 76 | | | 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 C6-C9 | S24-De0057933 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C10-C14 | N24-De0050007 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | N24-De0050007 | NCP | mg/kg | 62 | < 50 | 48 | 30% | Fail | Q15 |
| TRH C29-C36 | N24-De0050007 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C6-C10 | S24-De0057933 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH >C10-C16 | N24-De0050007 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | N24-De0050007 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | N24-De0050007 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S24-De0057933 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S24-De0057933 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S24-De0057933 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S24-De0057933 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S24-De0057933 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S24-De0057933 | NCP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons - 2013 NEPM Fractions** | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | S24-De0057933 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | S24-De0060089 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S24-De0058733 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | S24-De0058733 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | Result 1 | Result 2 | RPD | | | |
| Aroclor-1016 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1221 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1232 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1242 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1248 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1254 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1260 | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Total PCB* | S24-De0058733 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S25-Ja0000849 | NCP | mg/kg | 8.0 | 6.9 | 15 | 30% | Pass | |
| Cadmium | S25-Ja0000849 | NCP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S25-Ja0000849 | NCP | mg/kg | 20 | 18 | 8.0 | 30% | Pass | |
| Copper | S25-Ja0000849 | NCP | mg/kg | 22 | 22 | 2.0 | 30% | Pass | |
| Lead | S25-Ja0000849 | NCP | mg/kg | 19 | 21 | 7.0 | 30% | Pass | |
| Mercury | S25-Ja0000849 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S25-Ja0000849 | NCP | mg/kg | 7.8 | 5.5 | 35 | 30% | Fail | Q15 |
| Zinc | S25-Ja0000849 | NCP | mg/kg | 24 | 23 | 6.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Sample Properties** | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S24-De0051897 | NCP | % | 20 | 22 | 13 | 30% | Pass | |

## Comments

## Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Temperature of Chilled samples on receipt | 24.9°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. |
| 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:

| | |
|---|---|
| Nileshni Goundar | Analytical Services Manager |
| Mickael Ros | Senior Analyst-Metal |
| Ryan Phillips | Senior Analyst-Sample Properties |
| Raymond Siu | Senior Analyst-Organic |
| Raymond Siu | Senior Analyst-Volatile |
| Roopesh Rangarajan | Senior Analyst-Organic |

**Glenn Jackson**
**Managing Director**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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eurofins | Environment Testing

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**Eurofins Environment Testing Australia Pty Ltd**

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| NATA# 1261 | NATA# 1261 | NATA# 1261 | NATA# 1261 | NATA# 1261 | NATA# 1261 |
| Site# 1254 | Site# 25403 | Site# 18217 | Site# 25466 | Site# 20794 & 2780 | Site# 25079 |

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| NATA# 2377 |
| Site# 2370 & 2554 |

**Eurofins Environment Testing NZ Ltd**

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|---|---|---|---|
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| Penrose, | Mount Wellington, | Rolleston, | Gate Pa, |
| Auckland 1061 | Auckland 1061 | Christchurch 7675 | Tauranga 3112 |
| +64 9 526 4551 | +64 9 525 0568 | +64 3 343 5201 | +64 9 525 0568 |
| IANZ# 1327 | IANZ# 1308 | IANZ# 1290 | IANZ# 1402 |

# Sample Receipt Advice

**Company name:** SMEC Australia Pty Ltd (SYD)
**Contact name:** Manuel Fernandez
**Project name:** HEALTH INFRASTRUCTURE
**Project ID:** 30013640
**Turnaround time:** 15 Day
**Date/Time received** Dec 17, 2024 10:00 AM
**Eurofins reference** 1173417

## 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 : 24.9 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

Please be advised that over the holiday period, the standard TAT has been extended. Results for samples received after the 13th of December will be reported in January 2025. Please contact our ASM team if you have any questions.

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Adam Bateup on phone : or by email: Adam.Bateup@eurofinsanz.com**

Results will be delivered electronically via email to Manuel Fernandez - manuel.fernandez@smec.com.

*Note: A copy of these results will also be delivered to the general SMEC Australia Pty Ltd (SYD) email address.*

smec
an company

# CHAIN OF CUSTODY FORM

**SMEC Office: North Sydney**

| | | | | | | |
|---|---|---|---|---|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI | | | LABORATORY: | Eurofins | |
| SITE LOCATION: | Bankstown | | | CONTACT PERSON: | | |
| PROJECT No: | 30013640 | | | ADDRESS & PHONE No.: | 179 Magowar Rd, Girraween NSW 2145 | |
| CLIENT: | Health Infrastructure NSW | | | LABORATORY QUOTE No.: | Price book 2023 | |
| PROJECT MANAGER/ TECHNICAL LEAD: | Manuel Fernandez | CONTACT PH: | 0401 106 772 | TURNAROUND REQUIREMENTS: | Standard | |
| SAMPLED BY: | Harrison Wood | CONTACT PH: | 0411 754 451 | DESPATCH COURIER (consignment reference): | | |
| DATE(s) SAMPLED: | 09/12/2024-11/12/2024 | RELINQUISHED BY: | 1) Harrison Wood | 2) | 3) | 4) |
| DATE/TIME OF DEPARTURE FROM SITE: | 11/12/24 at 15:30pm | DATE/TIME: | 11/12/2024 \| 5:00 PM | | | |
| EMAIL REPORTS TO (default to PM/TL): | harrison.wood@smec.com manuel.fernandez@smec.com | RECEIVED BY: | A Newton | | | |
| EMAIL INVOICE TO (default to PM/TL): | manuel.fernandez@smec.com | DATE/TIME: | 17/12 10:00 | 29.9°C | | |

SPECIAL LABORATORY INSTRUCTIONS:

Requested limits of reporting are: ■ STANDARD □ SPECIFIED IN QUOTATION □ SPECIFIED IN CoC (note: PM/TL to review) _____

Please ensure all samples are analysed within respective holding times. □ Note: Short holding times apply to some analytes.

| SAMPLE DETAILS | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER TYPE & PRESERVATIVE | TOTAL NO. CONTAINERS | Suite B10A - TRH, BTEXN, PAH, OCP, PCB, Metals 8 | M8 metlas | | | | | | | | | HOLD | | Comment |
| | QA01-A | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA02-A | 9/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA03-A | 9/12/2024 | Soil | 1 Jar | 1 | X | | | | | | | | | | | | |
| | QA04-A | 10/12/2024 | Soil | 1 Jar | 1 | X | | | | | | | | | | | | |
| | QA05-A | 10/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA06-A | 11/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA07-A | 11/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | QA08-A | 11/12/2024 | Soil | 1 Jar | 1 | | | | | | | | | | | X | | |
| | | | | TOTAL | 8 | 2 | 0 | | | | | | | | | 6 | | |

Common Abbreviations: S - Soil, W - Water, M - Material, UP - Unpreserved, P - Preserved, PM- Project Manager, TL - Technical Lead, LOR - Limits of reporting, CoC - Chain of custody

ATC # 10570
16/12/24
173417

Appendix J

# 95% UCL Calculations

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.15/02/2025 4:06:13 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | Arsenic (using all SMEC data points) | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | 45 | | | | | Number of Distinct Observations | 14 | | | | |
| 15 | | | | | | | Number of Missing Observations | 0 | | | | |
| 16 | Minimum | 1 | | | | | Mean | 11.67 | | | | |
| 17 | Maximum | 180 | | | | | Median | 5 | | | | |
| 18 | SD | 29.43 | | | | | Std. Error of Mean | 4.387 | | | | |
| 19 | Coefficient of Variation | 2.522 | | | | | Skewness | 5.023 | | | | |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | 0.329 | | | | | Shapiro Wilk GOF Test | | | | | |
| 23 | 5% Shapiro Wilk Critical Value | 0.945 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 24 | Lilliefors Test Statistic | 0.415 | | | | | Lilliefors GOF Test | | | | | |
| 25 | 5% Lilliefors Critical Value | 0.131 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | 95% UCLs (Adjusted for Skewness) | | | | | |
| 30 | 95% Student's-t UCL | 19.04 | | | | | 95% Adjusted-CLT UCL (Chen-1995) | 22.39 | | | | |
| 31 | | | | | | | 95% Modified-t UCL (Johnson-1978) | 19.58 | | | | |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | 5.453 | | | | | Anderson-Darling Gamma GOF Test | | | | | |
| 35 | 5% A-D Critical Value | 0.79 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 36 | K-S Test Statistic | 0.308 | | | | | Kolmogorov-Smirnov Gamma GOF Test | | | | | |
| 37 | 5% K-S Critical Value | 0.137 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | 0.75 | | | | | k star (bias corrected MLE) | 0.715 | | | | |
| 42 | Theta hat (MLE) | 15.55 | | | | | Theta star (bias corrected MLE) | 16.31 | | | | |
| 43 | nu hat (MLE) | 67.53 | | | | | nu star (bias corrected) | 64.36 | | | | |
| 44 | MLE Mean (bias corrected) | 11.67 | | | | | MLE Sd (bias corrected) | 13.8 | | | | |
| 45 | | | | | | | Approximate Chi Square Value (0.05) | 46.91 | | | | |
| 46 | Adjusted Level of Significance | 0.0447 | | | | | Adjusted Chi Square Value | 46.41 | | | | |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | 16.01 | | | | | 95% Adjusted Gamma UCL (use when n<50) | 16.18 | | | | |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | 0.867 | | | | | Shapiro Wilk Lognormal GOF Test | | | | | |
| 53 | 5% Shapiro Wilk Critical Value | 0.945 | | | | | Data Not Lognormal at 5% Significance Level | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.187 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.131 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0 | | | | Mean of logged Data | 1.659 | |
| 60 | | | | | Maximum of Logged Data | 5.193 | | | | SD of logged Data | 0.997 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 12.32 | | | | 90% Chebyshev (MVUE) UCL | 12.93 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 14.94 | | | | 97.5% Chebyshev (MVUE) UCL | 17.72 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 23.2 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 18.88 | | | | 95% Jackknife UCL | 19.04 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 19 | | | | 95% Bootstrap-t UCL | 53.37 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 46.71 | | | | 95% Percentile Bootstrap UCL | 19.96 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 24.44 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 24.83 | | | | 95% Chebyshev(Mean, Sd) UCL | 30.79 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 39.06 | | | | 99% Chebyshev(Mean, Sd) UCL | 55.31 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 30.79 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.15/02/2025 4:43:02 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | Arsenic (Fill) (using all SMEC data points within fill unit only) | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | 27 | | | | | Number of Distinct Observations | 11 | | | | |
| 15 | | | | | | | Number of Missing Observations | 0 | | | | |
| 16 | Minimum | 1 | | | | | Mean | 14.81 | | | | |
| 17 | Maximum | 180 | | | | | Median | 4 | | | | |
| 18 | SD | 37.88 | | | | | Std. Error of Mean | 7.291 | | | | |
| 19 | Coefficient of Variation | 2.557 | | | | | Skewness | 3.844 | | | | |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | 0.384 | | | | | Shapiro Wilk GOF Test | | | | | |
| 23 | 5% Shapiro Wilk Critical Value | 0.923 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 24 | Lilliefors Test Statistic | 0.439 | | | | | Lilliefors GOF Test | | | | | |
| 25 | 5% Lilliefors Critical Value | 0.167 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | 95% UCLs (Adjusted for Skewness) | | | | | |
| 30 | 95% Student's-t UCL | 27.25 | | | | | 95% Adjusted-CLT UCL (Chen-1995) | 32.57 | | | | |
| 31 | | | | | | | 95% Modified-t UCL (Johnson-1978) | 28.15 | | | | |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | 3.808 | | | | | Anderson-Darling Gamma GOF Test | | | | | |
| 35 | 5% A-D Critical Value | 0.804 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 36 | K-S Test Statistic | 0.355 | | | | | Kolmogorov-Smirnov Gamma GOF Test | | | | | |
| 37 | 5% K-S Critical Value | 0.178 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | 0.531 | | | | | k star (bias corrected MLE) | 0.497 | | | | |
| 42 | Theta hat (MLE) | 27.88 | | | | | Theta star (bias corrected MLE) | 29.8 | | | | |
| 43 | nu hat (MLE) | 28.7 | | | | | nu star (bias corrected) | 26.84 | | | | |
| 44 | MLE Mean (bias corrected) | 14.81 | | | | | MLE Sd (bias corrected) | 21.01 | | | | |
| 45 | | | | | | | Approximate Chi Square Value (0.05) | 16.03 | | | | |
| 46 | Adjusted Level of Significance | 0.0401 | | | | | Adjusted Chi Square Value | 15.49 | | | | |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | 24.81 | | | | | 95% Adjusted Gamma UCL (use when n<50) | 25.66 | | | | |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | 0.842 | | | | | Shapiro Wilk Lognormal GOF Test | | | | | |
| 53 | 5% Shapiro Wilk Critical Value | 0.923 | | | | | Data Not Lognormal at 5% Significance Level | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.226 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.167 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0 | | | | Mean of logged Data | 1.512 | |
| 60 | | | | | Maximum of Logged Data | 5.193 | | | | SD of logged Data | 1.244 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 19.74 | | | | 90% Chebyshev (MVUE) UCL | 17.43 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 21.08 | | | | 97.5% Chebyshev (MVUE) UCL | 26.14 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 36.09 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 26.81 | | | | 95% Jackknife UCL | 27.25 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 26.53 | | | | 95% Bootstrap-t UCL | 84.75 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 89.45 | | | | 95% Percentile Bootstrap UCL | 28.22 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 36.04 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 36.69 | | | | 95% Chebyshev(Mean, Sd) UCL | 46.59 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 60.35 | | | | 99% Chebyshev(Mean, Sd) UCL | 87.36 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 46.59 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.15/02/2025 4:08:43 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | Benzo(a)pyrene (using all SMEC data points) | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | 35 | | | | | Number of Distinct Observations | 6 | | | | |
| 15 | | | | | | | Number of Missing Observations | 0 | | | | |
| 16 | Minimum | 0.05 | | | | | Mean | 0.123 | | | | |
| 17 | Maximum | 0.9 | | | | | Median | 0.05 | | | | |
| 18 | SD | 0.173 | | | | | Std. Error of Mean | 0.0292 | | | | |
| 19 | Coefficient of Variation | 1.408 | | | | | Skewness | 3.195 | | | | |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | 0.501 | | | | | Shapiro Wilk GOF Test | | | | | |
| 23 | 5% Shapiro Wilk Critical Value | 0.934 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 24 | Lilliefors Test Statistic | 0.406 | | | | | Lilliefors GOF Test | | | | | |
| 25 | 5% Lilliefors Critical Value | 0.148 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | 95% UCLs (Adjusted for Skewness) | | | | | |
| 30 | 95% Student's-t UCL | 0.172 | | | | | 95% Adjusted-CLT UCL (Chen-1995) | 0.188 | | | | |
| 31 | | | | | | | 95% Modified-t UCL (Johnson-1978) | 0.175 | | | | |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | 7.163 | | | | | Anderson-Darling Gamma GOF Test | | | | | |
| 35 | 5% A-D Critical Value | 0.772 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 36 | K-S Test Statistic | 0.447 | | | | | Kolmogorov-Smirnov Gamma GOF Test | | | | | |
| 37 | 5% K-S Critical Value | 0.152 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | 1.207 | | | | | k star (bias corrected MLE) | 1.123 | | | | |
| 42 | Theta hat (MLE) | 0.102 | | | | | Theta star (bias corrected MLE) | 0.109 | | | | |
| 43 | nu hat (MLE) | 84.52 | | | | | nu star (bias corrected) | 78.61 | | | | |
| 44 | MLE Mean (bias corrected) | 0.123 | | | | | MLE Sd (bias corrected) | 0.116 | | | | |
| 45 | | | | | | | Approximate Chi Square Value (0.05) | 59.18 | | | | |
| 46 | Adjusted Level of Significance | 0.0425 | | | | | Adjusted Chi Square Value | 58.38 | | | | |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | 0.163 | | | | | 95% Adjusted Gamma UCL (use when n<50) | 0.165 | | | | |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | 0.589 | | | | | Shapiro Wilk Lognormal GOF Test | | | | | |
| 53 | 5% Shapiro Wilk Critical Value | 0.934 | | | | | Data Not Lognormal at 5% Significance Level | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.443 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.148 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | -2.996 | | | | Mean of logged Data | -2.565 | |
| 60 | | | | | Maximum of Logged Data | -0.105 | | | | SD of logged Data | 0.82 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 0.148 | | | | 90% Chebyshev (MVUE) UCL | 0.156 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 0.178 | | | | 97.5% Chebyshev (MVUE) UCL | 0.209 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 0.269 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 0.171 | | | | 95% Jackknife UCL | 0.172 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 0.172 | | | | 95% Bootstrap-t UCL | 0.207 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 0.207 | | | | 95% Percentile Bootstrap UCL | 0.173 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 0.19 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 0.211 | | | | 95% Chebyshev(Mean, Sd) UCL | 0.25 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 0.305 | | | | 99% Chebyshev(Mean, Sd) UCL | 0.414 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 0.25 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.15/02/2025 4:43:36 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | Lead (Fill)(using all SMEC data points within fill unit only) | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | | | | | 27 | | Number of Distinct Observations | | | | 18 |
| 15 | | | | | | | | Number of Missing Observations | | | | 0 |
| 16 | Minimum | | | | | 2 | | Mean | | | | 56 |
| 17 | Maximum | | | | | 770 | | Median | | | | 19 |
| 18 | SD | | | | | 146.1 | | Std. Error of Mean | | | | 28.11 |
| 19 | Coefficient of Variation | | | | | 2.608 | | Skewness | | | | 4.834 |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | | | | | 0.353 | | Shapiro Wilk GOF Test | | | | |
| 23 | 5% Shapiro Wilk Critical Value | | | | | 0.923 | | Data Not Normal at 5% Significance Level | | | | |
| 24 | Lilliefors Test Statistic | | | | | 0.356 | | Lilliefors GOF Test | | | | |
| 25 | 5% Lilliefors Critical Value | | | | | 0.167 | | Data Not Normal at 5% Significance Level | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | | 95% UCLs (Adjusted for Skewness) | | | | |
| 30 | 95% Student's-t UCL | | | | | 103.9 | | 95% Adjusted-CLT UCL (Chen-1995) | | | | 130.2 |
| 31 | | | | | | | | 95% Modified-t UCL (Johnson-1978) | | | | 108.3 |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | | | | | 1.579 | | Anderson-Darling Gamma GOF Test | | | | |
| 35 | 5% A-D Critical Value | | | | | 0.803 | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 36 | K-S Test Statistic | | | | | 0.237 | | Kolmogorov-Smirnov Gamma GOF Test | | | | |
| 37 | 5% K-S Critical Value | | | | | 0.177 | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | | | | | 0.547 | | k star (bias corrected MLE) | | | | 0.511 |
| 42 | Theta hat (MLE) | | | | | 102.3 | | Theta star (bias corrected MLE) | | | | 109.5 |
| 43 | nu hat (MLE) | | | | | 29.56 | | nu star (bias corrected) | | | | 27.61 |
| 44 | MLE Mean (bias corrected) | | | | | 56 | | MLE Sd (bias corrected) | | | | 78.32 |
| 45 | | | | | | | | Approximate Chi Square Value (0.05) | | | | 16.62 |
| 46 | Adjusted Level of Significance | | | | | 0.0401 | | Adjusted Chi Square Value | | | | 16.08 |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | | | | | 93 | | 95% Adjusted Gamma UCL (use when n<50) | | | | 96.16 |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | | | | | 0.949 | | Shapiro Wilk Lognormal GOF Test | | | | |
| 53 | 5% Shapiro Wilk Critical Value | | | | | 0.923 | | Data appear Lognormal at 5% Significance Level | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.116 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.167 | Data appear Lognormal at 5% Significance Level | | | | | |
| 56 | Data appear Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0.693 | | | Mean of logged Data | 2.881 | | |
| 60 | | | | | Maximum of Logged Data | 6.646 | | | SD of logged Data | 1.424 | | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 117.6 | | | 90% Chebyshev (MVUE) UCL | 92.39 | | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 113.4 | | | 97.5% Chebyshev (MVUE) UCL | 142.7 | | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 200.1 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data appear to follow a Discernible Distribution at 5% Significance Level | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 102.2 | | | 95% Jackknife UCL | 103.9 | | |
| 72 | | | | | 95% Standard Bootstrap UCL | 100.4 | | | 95% Bootstrap-t UCL | 259.9 | | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 263.1 | | | 95% Percentile Bootstrap UCL | 108.9 | | |
| 74 | | | | | 95% BCA Bootstrap UCL | 162 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 140.3 | | | 95% Chebyshev(Mean, Sd) UCL | 178.5 | | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 231.6 | | | 99% Chebyshev(Mean, Sd) UCL | 335.7 | | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% H-UCL | 117.6 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | ProUCL computes and outputs H-statistic based UCLs for historical reasons only. | | | | | | | | | | | |
| 87 | H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide. | | | | | | | | | | | |
| 88 | It is therefore recommended to avoid the use of H-statistic based 95% UCLs. | | | | | | | | | | | |
| 89 | Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution. | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.15/02/2025 4:44:32 PM | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | Lead (Fill + JBS&G high result) (using all SMEC data points within fill unit only and including high lead result | | | | | | | | | | |
| 12 | from JBS&G SS23/0.4 of 1,500mg/kg) | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | |
| 14 | Total Number of Observations | 28 | | | | Number of Distinct Observations | 19 | | | | |
| 15 | | | | | | Number of Missing Observations | 0 | | | | |
| 16 | Minimum | 2 | | | | Mean | 107.6 | | | | |
| 17 | Maximum | 1500 | | | | Median | 21.5 | | | | |
| 18 | SD | 308.2 | | | | Std. Error of Mean | 58.25 | | | | |
| 19 | Coefficient of Variation | 2.866 | | | | Skewness | 4.049 | | | | |
| 20 | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | 0.365 | | | | Shapiro Wilk GOF Test | | | | | |
| 23 | 5% Shapiro Wilk Critical Value | 0.924 | | | | Data Not Normal at 5% Significance Level | | | | | |
| 24 | Lilliefors Test Statistic | 0.421 | | | | Lilliefors GOF Test | | | | | |
| 25 | 5% Lilliefors Critical Value | 0.164 | | | | Data Not Normal at 5% Significance Level | | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | 95% UCLs (Adjusted for Skewness) | | | | | |
| 30 | 95% Student's-t UCL | 206.8 | | | | 95% Adjusted-CLT UCL (Chen-1995) | 251 | | | | |
| 31 | | | | | | 95% Modified-t UCL (Johnson-1978) | 214.2 | | | | |
| 32 | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | |
| 34 | A-D Test Statistic | 2.754 | | | | Anderson-Darling Gamma GOF Test | | | | | |
| 35 | 5% A-D Critical Value | 0.832 | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 36 | K-S Test Statistic | 0.272 | | | | Kolmogorov-Smirnov Gamma GOF Test | | | | | |
| 37 | 5% K-S Critical Value | 0.177 | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | |
| 39 | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | |
| 41 | k hat (MLE) | 0.401 | | | | k star (bias corrected MLE) | 0.382 | | | | |
| 42 | Theta hat (MLE) | 268 | | | | Theta star (bias corrected MLE) | 281.5 | | | | |
| 43 | nu hat (MLE) | 22.47 | | | | nu star (bias corrected) | 21.4 | | | | |
| 44 | MLE Mean (bias corrected) | 107.6 | | | | MLE Sd (bias corrected) | 174 | | | | |
| 45 | | | | | | Approximate Chi Square Value (0.05) | 11.89 | | | | |
| 46 | Adjusted Level of Significance | 0.0404 | | | | Adjusted Chi Square Value | 11.45 | | | | |
| 47 | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | 193.6 | | | | 95% Adjusted Gamma UCL (use when n<50) | 201 | | | | |
| 50 | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | 0.931 | | | | Shapiro Wilk Lognormal GOF Test | | | | | |
| 53 | 5% Shapiro Wilk Critical Value | 0.924 | | | | Data appear Lognormal at 5% Significance Level | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | Lilliefors Test Statistic | | 0.143 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | 5% Lilliefors Critical Value | | 0.164 | Data appear Lognormal at 5% Significance Level | | | | | |
| 56 | Data appear Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | Minimum of Logged Data | | 0.693 | | | Mean of logged Data | | | 3.039 |
| 60 | | | | Maximum of Logged Data | | 7.313 | | | SD of logged Data | | | 1.63 |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | 95% H-UCL | | 223.2 | | | 90% Chebyshev (MVUE) UCL | | | 155.5 |
| 64 | | | | 95% Chebyshev (MVUE) UCL | | 193.6 | | | 97.5% Chebyshev (MVUE) UCL | | | 246.5 |
| 65 | | | | 99% Chebyshev (MVUE) UCL | | 350.4 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data appear to follow a Discernible Distribution at 5% Significance Level | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | 95% CLT UCL | | 203.4 | | | 95% Jackknife UCL | | | 206.8 |
| 72 | | | | 95% Standard Bootstrap UCL | | 200.8 | | | 95% Bootstrap-t UCL | | | 919.2 |
| 73 | | | | 95% Hall's Bootstrap UCL | | 650.8 | | | 95% Percentile Bootstrap UCL | | | 215.2 |
| 74 | | | | 95% BCA Bootstrap UCL | | 290.6 | | | | | | |
| 75 | | | | 90% Chebyshev(Mean, Sd) UCL | | 282.3 | | | 95% Chebyshev(Mean, Sd) UCL | | | 361.5 |
| 76 | | | | 97.5% Chebyshev(Mean, Sd) UCL | | 471.4 | | | 99% Chebyshev(Mean, Sd) UCL | | | 687.2 |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | 95% Chebyshev (Mean, Sd) UCL | | 361.5 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.15/02/2025 4:26:42 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | Lead (including JBS&G high value) (using all SMEC data points and including high lead result from JBS&G | | | | | | | | | | | |
| 12 | SS23/0.4 of 1,500mg/kg) | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | 46 | | | | | Number of Distinct Observations | 27 | | | | |
| 15 | | | | | | | Number of Missing Observations | 0 | | | | |
| 16 | Minimum | 2 | | | | | Mean | 72.24 | | | | |
| 17 | Maximum | 1500 | | | | | Median | 16.5 | | | | |
| 18 | SD | 243 | | | | | Std. Error of Mean | 35.82 | | | | |
| 19 | Coefficient of Variation | 3.363 | | | | | Skewness | 5.254 | | | | |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | 0.288 | | | | | Shapiro Wilk GOF Test | | | | | |
| 23 | 5% Shapiro Wilk Critical Value | 0.945 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 24 | Lilliefors Test Statistic | 0.412 | | | | | Lilliefors GOF Test | | | | | |
| 25 | 5% Lilliefors Critical Value | 0.129 | | | | | Data Not Normal at 5% Significance Level | | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | 95% UCLs (Adjusted for Skewness) | | | | | |
| 30 | 95% Student's-t UCL | 132.4 | | | | | 95% Adjusted-CLT UCL (Chen-1995) | 160.8 | | | | |
| 31 | | | | | | | 95% Modified-t UCL (Johnson-1978) | 137 | | | | |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | 6.262 | | | | | Anderson-Darling Gamma GOF Test | | | | | |
| 35 | 5% A-D Critical Value | 0.819 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 36 | K-S Test Statistic | 0.328 | | | | | Kolmogorov-Smirnov Gamma GOF Test | | | | | |
| 37 | 5% K-S Critical Value | 0.138 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | 0.476 | | | | | k star (bias corrected MLE) | 0.46 | | | | |
| 42 | Theta hat (MLE) | 151.7 | | | | | Theta star (bias corrected MLE) | 157.2 | | | | |
| 43 | nu hat (MLE) | 43.8 | | | | | nu star (bias corrected) | 42.28 | | | | |
| 44 | MLE Mean (bias corrected) | 72.24 | | | | | MLE Sd (bias corrected) | 106.6 | | | | |
| 45 | | | | | | | Approximate Chi Square Value (0.05) | 28.37 | | | | |
| 46 | Adjusted Level of Significance | 0.0448 | | | | | Adjusted Chi Square Value | 28 | | | | |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | 107.6 | | | | | 95% Adjusted Gamma UCL (use when n<50) | 109.1 | | | | |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | 0.885 | | | | | Shapiro Wilk Lognormal GOF Test | | | | | |
| 53 | 5% Shapiro Wilk Critical Value | 0.945 | | | | | Data Not Lognormal at 5% Significance Level | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.184 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.129 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0.693 | | | | Mean of logged Data | 2.936 | |
| 60 | | | | | Maximum of Logged Data | 7.313 | | | | SD of logged Data | 1.288 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 71.77 | | | | 90% Chebyshev (MVUE) UCL | 71.73 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 85.29 | | | | 97.5% Chebyshev (MVUE) UCL | 104.1 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 141 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 131.2 | | | | 95% Jackknife UCL | 132.4 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 129.7 | | | | 95% Bootstrap-t UCL | 591.6 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 400.1 | | | | 95% Percentile Bootstrap UCL | 137.7 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 171.3 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 179.7 | | | | 95% Chebyshev(Mean, Sd) UCL | 228.4 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 295.9 | | | | 99% Chebyshev(Mean, Sd) UCL | 428.7 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 228.4 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

## UCL Statistics for Uncensored Full Data Sets

| | |
|---|---|
| User Selected Options | |
| Date/Time of Computation | ProUCL 5.15/02/2025 4:07:45 PM |
| From File | WorkSheet.xls |
| Full Precision | OFF |
| Confidence Coefficient | 95% |
| Number of Bootstrap Operations | 2000 |

Lead(using all SMEC data points)

### General Statistics

| | | | |
|---|---|---|---|
| Total Number of Observations | 45 | Number of Distinct Observations | 26 |
| | | Number of Missing Observations | 0 |
| Minimum | 2 | Mean | 40.51 |
| Maximum | 770 | Median | 16 |
| SD | 114.1 | Std. Error of Mean | 17 |
| Coefficient of Variation | 2.815 | Skewness | 6.226 |

### Normal GOF Test

| | | |
|---|---|---|
| Shapiro Wilk Test Statistic | 0.291 | Shapiro Wilk GOF Test |
| 5% Shapiro Wilk Critical Value | 0.945 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.368 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.131 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

### Assuming Normal Distribution

| 95% Normal UCL | | 95% UCLs (Adjusted for Skewness) | |
|---|---|---|---|
| 95% Student's-t UCL | 69.08 | 95% Adjusted-CLT UCL (Chen-1995) | 85.34 |
| | | 95% Modified-t UCL (Johnson-1978) | 71.71 |

### Gamma GOF Test

| | | |
|---|---|---|
| A-D Test Statistic | 3.81 | Anderson-Darling Gamma GOF Test |
| 5% A-D Critical Value | 0.794 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.274 | Kolmogorov-Smirnov Gamma GOF Test |
| 5% K-S Critical Value | 0.137 | Data Not Gamma Distributed at 5% Significance Level |

Data Not Gamma Distributed at 5% Significance Level

### Gamma Statistics

| | | | |
|---|---|---|---|
| k hat (MLE) | 0.7 | k star (bias corrected MLE) | 0.668 |
| Theta hat (MLE) | 57.87 | Theta star (bias corrected MLE) | 60.63 |
| nu hat (MLE) | 63 | nu star (bias corrected) | 60.14 |
| MLE Mean (bias corrected) | 40.51 | MLE Sd (bias corrected) | 49.56 |
| | | Approximate Chi Square Value (0.05) | 43.3 |
| Adjusted Level of Significance | 0.0447 | Adjusted Chi Square Value | 42.83 |

### Assuming Gamma Distribution

| | | | |
|---|---|---|---|
| 95% Approximate Gamma UCL (use when n>=50)) | 56.26 | 95% Adjusted Gamma UCL (use when n<50) | 56.88 |

### Lognormal GOF Test

| | | |
|---|---|---|
| Shapiro Wilk Test Statistic | 0.92 | Shapiro Wilk Lognormal GOF Test |
| 5% Shapiro Wilk Critical Value | 0.945 | Data Not Lognormal at 5% Significance Level |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.154 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.131 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0.693 | | | | Mean of logged Data | 2.838 | |
| 60 | | | | | Maximum of Logged Data | 6.646 | | | | SD of logged Data | 1.118 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 48.73 | | | | 90% Chebyshev (MVUE) UCL | 50.07 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 58.6 | | | | 97.5% Chebyshev (MVUE) UCL | 70.44 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 93.7 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 68.48 | | | | 95% Jackknife UCL | 69.08 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 69.15 | | | | 95% Bootstrap-t UCL | 167.4 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 164 | | | | 95% Percentile Bootstrap UCL | 73.73 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 95.67 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 91.52 | | | | 95% Chebyshev(Mean, Sd) UCL | 114.6 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 146.7 | | | | 99% Chebyshev(Mean, Sd) UCL | 209.7 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 114.6 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

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**Attachment 2:** SMEC (25 November 2025) Remedial Action Plan (Rev 4), Bankstown New Hospital – 490 Chapel Road, Bankstown

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Remedial Action Plan

# Bankstown New Hospital - 490 Chapel Road, Bankstown

Prepared for: HINSW (C/Capital Insight)
25 November 2025
Client Reference No. HI24318

SMEC INTERNAL REF. 30013640

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The information within this document is and shall remain the property of SMEC.

## Important Notice

This report is confidential and is provided solely for the purposes of providing a Remedial Action Plan for the proposed Bankstown New Hospital at 490 Chapel Road, Bankstown, NSW. This report is provided pursuant to a Consultancy Agreement between SMEC Australia Pty Limited ("SMEC") and Health Infrastructure NSW, under which SMEC undertook to perform a specific and limited task for Health Infrastructure NSW. This report is strictly limited to the matters stated in it and subject to the various assumptions, qualifications and limitations in it and does not apply by implication to other matters. SMEC makes no representation that the scope, assumptions, qualifications and exclusions set out in this report will be suitable or sufficient for other purposes nor that the content of the report covers all matters which you may regard as material for your purposes.

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The report supersedes all previous draft or interim reports, whether written or presented orally, before the date of this report. This report has not and will not be updated for events or transactions occurring after the date of the report or any other matters which might have a material effect on its contents, or which come to light after the date of the report. SMEC is not obliged to inform you of any such event, transaction or matter nor to update the report for anything that occurs, or of which SMEC becomes aware, after the date of this report.

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This report has relied on information provided by Health Infrastructure NSW and presented in previous reports. It was not within the scope of SMEC to validate the results of the previous reports and we have therefore relied that the information contained in those reports is a true and accurate reflection of the site conditions. SMEC has also relied on the data within those reports and relied that the conclusions made in those reports are reasonable and made on a sound scientific basis. Each report has its own set of limitations and those limitations also apply to the interpretations made by SMEC. SMEC do not take responsibility for errors, omissions or negligence in the use of the information contained in previous reports made available by Health Infrastructure NSW.

This report has been prepared on the assumption that Site conditions have not changed since the Site was last observed and tested and does not apply if changes to the Site have been made that affect the conditions with respect to contamination.

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# Abbreviations and Acronyms

Table 1–1: Abbreviations and Acronyms

| Abbreviation / Acronym | Meaning |
|---|---|
| AEIs | Areas of Environmental Interest |
| ACM | Asbestos Containing Material |
| ARCP | Asbestos Removal Control Plan |
| AHD | Australian Height Datum |
| BTEX | Benzene, Toluene, Ethylbenzene, Xylene |
| CSM | Conceptual Site Model |
| CoPC | Contaminants of Potential Concern |
| DQI | Data Quality Indicators |
| DQO | Data Quality Objectives |
| EIL | Ecological Investigation Level |
| ESL | Ecological Screening Level |
| EIS | Environmental Impact Statement |
| EPL | Environmental Protection Licence |
| HBMA | Hazardous Building Material Assessment |
| HAZMAT | Hazardous Material |
| HIL | Health Investigation Level |
| HSL | Health Screening Level |
| LNAPL | Light Non-Aqueous Phase Liquid |
| m bgl | meters below ground level |
| LTEMP | Lont Term Environmental Management Plan |
| NATA | National Association of Testing Authorities |
| OCP | Organochlorinated Pesticides |
| OPP | Organophosphorus Pesticides |
| PID | Photoionisation detector |
| PCB | Polychlorinated Biphenyls |
| PAH | Polycyclic Aromatic Hydrocarbons |
| POEO | Protection of the Environment Operations |
| QA/QC | Quality Assurance and Quality Control |
| RAP | Remedial Action Plan |
| SWMS | Safe Work Method Statement |
| SAQP | Sampling, Analysis and Quality Plan |
| SEPP | State Environmental Planning Policy |

| Abbreviation / Acronym | Meaning |
|---|---|
| NEPM | National Environment Protection Measure |
| TRH | Total Recoverable Hydrocarbons |
| TCLP | Toxicity Characteristic Leachate Procedure |
| UCL | Upper Confidence Limit |
| VENM | Virgin Excavated Natural Material |

# Executive Summary

This Remedial action Plan (RAP) has been prepared by SMEC Australia Pty Ltd (SMEC) on behalf of the Health Administrative Corporation to support a development application (DA) for category 1 site remediation works related to the New Bankstown Hospital project (the site) at 490 Chapel Road, Bankstown.

This report has been prepared to set remediation objectives and document the process to remediate the identified in-ground contamination to make the Site suitable for the proposed development so that it does not present an unacceptable risk to human health or the environment.

Previous investigations have identified contamination in the form of asbestos and lead in soil and an underground storage tank, which requires remediation to make the Site suitable for the proposed hospital. Additional investigations and validation is also required of areas that could not be previously accessed due to the presence of operational structures.

The overall objective of the RAP is to set remediation objectives and document the process to further assess the Site and remediate the identified contamination to make the Site suitable for the proposed development so that it does not present an unacceptable risk to health or the environment.

The RAP includes:

- A summary of the Site conditions and surrounding environment
- A summary of previous investigations
- Remediation Criteria
- Site characterisation
- A Conceptual Site Model (CSM)
- Remediation goal
- Extent of remediation required
- Remedial options and preferred approach
- Remedial activities
- Contingency measures
- Validation requirements
- Waste classification, tracking and handling requirements
- Description and outline of operational Site management requirements

Whilst the RAP provides an outline of the remedial requirements, it should be noted that this document is not a specification.

Based on the results of previous investigations and the Conceptual Site Model the following areas of the Site are considered to require further assessment and/or remedial actions:

- Lead (hotspot) in the area near sample location S23.
- Soils with asbestos in the southern and central parts of the Site. All areas with known asbestos are to be removed so that the likelihood of unexpected finds during construction is reduced.
- Further assessment/validation following removal of the transformer.
- Removal the underground fuel storage tank from the former maintenance storeroom/flammable store.
- Further assessment of areas below building footprints, that were not accessible at the time of previous investigations, following demolition.

Based on a meeting with representatives of Capital Insight Pty Ltd and HINSW on 14 October 2025, onsite encapsulation of asbestos impacted soils within a containment cell (including development, and implantation

of associated Long-term Environmental Management Plan) and excavation and offsite disposal of non-asbestos impacted contaminated materials were identified as the preferred remedial options.

Section 4.8(e) of State Environmental Planning Policy (Resilience and Hazards) (2021) indicates that remediation work to be carried out in an area or zone to which listed classifications apply under an environmental planning instrument (in this case at least item 4.8(e)(vi) floodway) is Category 1 remediation work and requires development consent.

Remediation works will involve the following general activities:

- Set up Site controls.
- Assessment of the transformer area once removed.
- Assessment of areas beneath building footprints.
- Removal of the underground storage tank and pipework.
- Excavation of known contaminated soils.
- Validation sampling to confirm effective removal of contaminated soils.
- Soil tilling across the southern part of the Site following removal of buildings and pavements due to the extent and number of previous housing structures in the southern part of the Site.
- Excavation of a dedicated containment area and isolation and encapsulation of asbestos impacted soils within it.
- Offsite disposal of non-asbestos impacted contaminated materials to a suitably licensed facility
- Preparing a validation report
- Preparation of a Long-Term Environment Management Plan (LTEMP) for the ongoing management of the onsite Containment Area.

SMEC considers the Site can be made suitable for the proposed activity subject to implementation of the RAP and then the LTEMP be prepared and applied.

Subject to successful validation, restrictions would only apply to future ground engaging activities whereby depths of penetration could extend close to or below the capping layer (within the Containment Area). This assumes remediation is undertaken as per this report, and the contamination sources and extents are as per the current CSM.

# 1. Introduction

## 1.1 General

This Remedial action Plan (RAP) has been prepared by SMEC Australia Pty Ltd (SMEC) on behalf of the Health Administrative Corporation to support a development application (DA) for category 1 site remediation works related to the New Bankstown Hospital project (the site) at 490 Chapel Road, Bankstown.

This report has been prepared to set remediation objectives and document the process to remediate the identified in-ground contamination to make the Site suitable for the proposed development so that it does not present an unacceptable risk to human health or the environment.

Previous investigations have identified contamination in the form of asbestos and lead in soil and an underground storage tank, which requires remediation to make the Site suitable for the proposed hospital. Additional investigations and validation is also required of areas that could not be previously accessed due to the presence of operational structures.

## 1.2 Summary of the Development

The proposed development relates to remediation works at the site to facilitate the redevelopment of the site for the purpose of a hospital.

The Statement of Environmental Effects (SEE) prepared by Ethos Urban provides a full description of the proposed works.

The new hospital development is currently at a concept design stage and will include contemporary purpose-built facilities for emergency health care and community health services. At the time of writing of this report, SMEC understands that the design of the new hospital is at a concept options level with several possible site layouts under consideration. Basement levels are not proposed, but some cut into the natural sloping ground is likely for multi storey buildings.

## 1.3 Site Description

The Site is located at 490 Chapel Road, Bankstown, within the Canterbury Bankstown LGA. The site has an approximate area of 38,170m$^2$ and is generally rectangular in shape. The site currently contains the Bankstown TAFE campus.

## 1.4 Scope of RAP

The scope of the RAP includes:

- A summary of the Site conditions and surrounding environment
- A summary of previous investigations
- Remediation Criteria
- Site characterisation
- A Conceptual Site Model (CSM)
- Remediation goal
- Extent of remediation required
- Remedial options and preferred approach
- Remedial activities
- Contingency measures
- Validation requirements
- Waste classification, tracking and handling requirements
- Description and outline of operational Site management requirements, including:
  - General environmental safeguards required to complete the remediation in an environmentally acceptable manner
  - General workplace health and safety requirements.

Whilst the RAP provides an outline of the remedial requirements, it should be noted that this document is not a specification.

Demolition or construction works are not part of the scope of this RAP.

## 1.5 Published Guidelines

The following key guidelines were considered for this RAP:

- NEPC, National Environment Protection (Assessment of site contamination) Measure 1999
- NSW EPA (2015), Guidelines on Duty to Report Contamination under the CLM Act 1997
- NSW EPA (2017) Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd ed)
- NSW EPA (2020), Contaminated land guidelines: Consultants reporting on contaminated land
- NSW EPA (2022), Sampling design part 1 - application
- State Environmental Planning Policy (Resilience and Hazards) 2021.

# 2. Previous Reports

Background information contained in this RAP relating to Site history, observations, Site conditions and previous data was sourced from the following previous reports:

- JBS&G (2021a) - Due Diligence Contamination Assessment, Site 16A Bankstown TAFE
- JBS&G (2021b) - DRAFT – Memorandum – Intrusive Due Diligence Works Progress Update, Site 16 Bankstown TAFE
- Douglas Partners (2022) - Preliminary Site Investigation (Contamination) - 490 Chapel Rd & 347A Hume Highway, Bankstown (Prepared for Bankstown City Council)
- SMEC (2025) Detailed Site Investigation, Bankstown New Hospital (Ref: 30013640, dated 21/3/2025)

A summary of relevant information from these reports is included in this RAP. Reference should be made to the original reports for further detailed information, in particular the SMEC (2025) Detailed Site Investigation (DSI).

# 3. Site Identification

A summary of Site information is presented below in Table 3–1. The Site location is provided in Figure 1, Appendix A.

Table 3–1 Summary of Site information.

| | |
|---|---|
| Address | Bankstown TAFE, 490 Chapel Road, Bankstown NSW 2200 |
| Title Identifiers | Lot 1 DP853675, Lot 10 DP6880 and Raw Avenue |
| Area | Approximately 3.9 ha |
| Coordinates (approx. centre of Site) | Easting: 318301.225<br>Northing: 6245963.037 |
| Local Government Area | Bankstown City Local Government Area (LGA) |
| Zoning | The Site comprised of land zonings under Bankstown Local Environmental Plan (LEP) 2023 as follows:<br>• SP2 Infrastructure (northern/central portion)<br>• B4 Mixed Use (south eastern portion) |
| Owner | TAFE NSW (assumed) |
| Occupier | TAFE NSW Bankstown Campus |
| Current Land Use | Tertiary Education Facility |
| Proposed Land Use | Hospital and ancillary facilities for health care. |
| Surrounding Land use | The surrounding land uses at the time of the Site was visited by SMEC for the Detailed Site Investigation are summarised below:<br>North: La Salle Catholic College boarders the Site. St Felix Catholic Primary School, Church (St Felix de Valois Parish), low and high density residential properties and Hume Highway are all located further to the north.<br>East: Chapel Road followed mainly by high density residential properties, a non-profit organisation (Islamic Charity Projects Assoc Inc) and several restaurants and food stores.<br>South: French Avenue and commercial properties (shopping mall – Little Saigon Plaza, Aldi, Unity Bank) and associated car parks.<br>West: Sport fields associated with La Salle Catholic College. High density residential properties and Meredith Street are located further west. |

## 3.1 Site History Summary

The Site history was assessed in previous reports through review of a number of data sources. Review of historical information from previous reports indicated that the southern portion of the Site was used for residential housing, with the central and northern areas remaining vacant until circa 1956, when buildings associated with a TAFE facility were constructed. Residential dwellings were progressively demolished for TAFE expansion including the TAFE car park in the south. A TAFE building in the central part of the Site was also demolished sometime between 1994 and 2002. The Site continued to operate as a TAFE for educational purposes. The extent of former housing/structures in the southern part of the Site is depicted in Figure 3-1 below.

A flammable liquids store is located in the central part of the Site with historical information (SafeWork NSW records for Schedule 11 hazardous chemicals) suggesting a 500L underground fuel tank is present in this area, which may still be in-situ. The inferred location of the tank is shown in Error! Reference source not found..

Bankstown Fire station is located approximately 190m northwest of the Site (upgradient). Fire stations have been known to historically store and use of firefighting foams, containing PFAS. The historical use of this fire station is not known.

Figure 3-1 1956 Aerial photo showing extent of former structures in southern part of the Site (Ref: JBS&G, 2021)

# 4. Site Condition and Surrounding Environment

## 4.1 Site Observations

A SMEC environmental scientist made observations of accessible parts of the Site on 18 November 2024 during the DSI. A summary of relevant observations is presented in Table 4–1.

Pertinent features are presented on Figure 4-1Error! Reference source not found. below.

Table 4–1 Summary of relevant Site observations.

| Area | Description |
|---|---|
| General Site | The Site was utilised as a TAFE campus with seven (7) main buildings, multiple small carparks and a larger carpark in the southern portion of the Site. The TAFE predominately focusses on English, child education, business, accounting and finance, animal care and hairdressing studies. The Site features a pronounced slope descending towards the south, with several retaining walls.<br>At the time of the visit, no unusual staining or surface evidence of asbestos containing materials were observed. Access to buildings was generally restricted except where stated.<br>The Site is mostly demarcated with fencing and gates which generally correspond to the boundary. |
| Northern carpark and Building D | The northern car park, accessible via Gate 3, is paved with asphalt and slopes towards the western portion. A small garden is located along the eastern boundary of this area. A retaining wall (approx. 3m in height) separates the car park from Building D, which is a two-story brick veneer structure housing programs for hairdressing, beauty therapy, and childcare students. |
| Building C and Surroundings | South of Building D, another car park, accessible via Gate 2, is paved with concrete and bordered by accessible soil between the car park and Building D. This car park is separated from Building C by a retaining wall (approx. 2.5m in height). Building C, a 2-to-3-story building, houses community services, aged care, corporate strategy functions, and the canteen.<br>East of Building C lies a large, landscaped garden with grassed seating areas, accessible via a small staircase (approx. 1.5m) from Gate 2. To the west of Building D is another car park connected to the upper car park via a ramp. This area is paved with asphalt, and a large grassed seating area is located further west. A retaining wall (approx. 2m) separates this section from the southern end of Building C. In the northwest section of this car park, a small brick structure houses the site's water meter, and four medium-sized water tanks are located along the verge of Building C. |
| Buildings E and J and Surroundings | The southernmost buildings on the Site are Buildings E and J, both six-story brick veneer structures housing the library, accounting, finance, and student learning support services. A small courtyard with accessible soil is located centrally within these buildings. East of these buildings, a set of stairs descends to the main car park, which combines concrete and asphalt paving. Retained vegetation slopes approximately 2 meters within this area, and a small garden with exposed soil is situated nearby. |
| Childcare Centre (Building L) | The childcare centre (Building L) is located in the southwest corner of the Site. However, access was not granted for inspection during this visit. |
| Southern Carpark | The southern portion of the Site features a large asphalt-paved car park with small gardens. |

| Area | Description |
|---|---|
| Operational Chemicals and Fuel Storage | During observations of Building D, conducted with a TAFE representative from the beauty services department indicated storage of chemicals, including bleaches, hair dyes, nail polish, and acetone in flammable goods storage cabinets.<br><br>Fuel and Liquid Petroleum Gas (LPG) storage was situated in the southeast corner of the Site. TAFE maintenance and facility staff advised this was used for forklifts and that no spills incidents are known to have occurred. |
| Flammable liquids store and Underground Storage Tank | Access was not provided during our assessment; however, historical records indicated a 500L underground fuel storage tank in the bottom floor of Building E. Onsite staff sent photos post the SMEC Site visit which showed a fuel vent pipe in the vicinity suggesting the tank may still be in-situ. Photos also showed 4 x 9kg LPG gas bottles, a plastic jerry can and three plastic containers (one hand labelled '$H_2O$'). |
| Utility Infrastructure | A transformer, owned by Energy Australia, was located at the northern end of Building J, but access was not provided during the visit. A backup generator was situated in the southeast corner of Building E. |
| Access | • Gate 3 provides access to the northern car park.<br>• Gate 2 serves the southern car park and landscaped garden east of Building C.<br>• Gate 1 provides access to central courtyard north of Buildings J and E<br>• A car ramp connects the western car park to the upper car park near Building D.<br>• A staircase provides access to the grassed garden and seating area east of Building C, as well as to the main car park south of Buildings B and J. |
| Retaining Walls | • Several retaining walls were observed as described above. |

Figure 4-1 Observations made during site walkover

## 4.2 Site Environmental Setting

A summary of the Site environmental setting is presented in Table 4–2.

Table 4–2 Summary of Site environmental setting.

| Aspect | Detail |
|---|---|
| Topography and Landforms | The Site slopes down in a north to south direction, with surface elevations ranging from approximately 60m Australian Height Datum (AHD) in the north to 31m AHD in the south. The Site is partially tiered with approximately three (3) 1.5-3m retaining walls across the Site. |
| Vegetation | The TAFE is predominantly developed, featuring a mix of grassed areas, shrubs, and mature trees distributed throughout the Site. Along the eastern boundary, there was a substantial garden characterised by large gum trees and grassed seating areas. In the north-western portion, a grassed seating area is present, separated from the northern car park by a dense vegetative buffer. A small communal grassed area, within the central portion, is accompanied by adjacent large gum trees. Elsewhere on the Site, vegetation is scattered gum trees and small shrubs, particularly along the western boundary and within the southern car park area. |
| Geology | Reference to the Seamless Surface Geology (https://minview.geoscience.nsw.gov.au/, on 22 November 2024) indicates that the Site is mapped the Site is mapped as being underlain predominantly by Bringelly Shale (Twib) geological unit of Wianamatta Group (Twi). Bringelly Shale is described as light to mid-grey claystone to dark grey-black carbonaceous claystone. The south-east corner of the Site is mapped to be underlain by the Michinbury Sandstone (Twim) geological unit of varying thickness comprising fine to medium lithic sandstone. Michinbury Sandstone unit (Twim) forms a geological contact between Ashfield Shale (Twia) geological unit and Bringelly Shale (Twib) geological unit. Ashfield Shale (Twia) geological unit found adjacent to the Site further south described as black to light grey claystone-siltstone, laminated fine-grained sandstone and siltstone. |
| Soils | Reference to the 1:100 000 Sydney Region Geological Map from NSW Department of Industry, Soils Landscape Sheet indicates that the Site is mapped as being underlain by the Glenorie erosional soils and Blacktown residual soils, as the Site is located on an interface between the two groups. The Glenorie soils group comprises shallow to moderately deep red podzolic soils on crests, red and brown podzolic soils on upper slopes, deep yellow podzolic soils on lower slopes and humic clays, yellow podzolic soils and gleyed podzolic soils along drainage lines. The Blacktown soils group comprises shallow to moderately deep red and brown podzolic soils crests, upper slopes and well drained areas, deep yellow podzolic soils and soloths on lower slopes and in areas of poor drainage.<br>The following general subsurface conditions were noted from the DSI test locations:<br>• Pavement/asphalt 0-0.1m<br>• FILL (soil of various mixtures) to 0.4-1.8m<br>• Residual (clay) |
| Acid Sulfate Soils | Reference to Acid Sulfate Soil (ASS) risk mapping (https://www.environment.nsw.gov.au/eSpade2Webapp) accessed on 21 November 2024, shows the Site is located within an area mapped as having ‘no known occurrence’ of ASS. |

| Aspect | Detail |
|---|---|
| Hydrology | Stormwater drains were present across hardstand areas onsite as observed during the Site visit. Rainfall runoff is expected to flow into the local stormwater network through onsite stormwater drainage system.<br>No apparent surface water bodies were observed on or near the Site. Reference to online mapping indicates Salt Pan Creek is located approximately 1 km south of the Site, flowing into the Georges River approximately 6.9km further south of the Site.<br>Reference to Canterbury-Bankstown Council online planning maps (https://cbcmapspublic.cbcity.nsw.gov.au/, accessed 16/6/2025) indicate that parts of the Site are mapped as being within areas affected by 1:100 year river and stormwater floods. An extract of the map is shown in Figure 4-2 below. |
| Hydrogeology | A search of the publicly available registered groundwater bore database (https://minview.geoscience.nsw.gov.au/, on 22 November 2024) indicated that there are a cluster of nine monitoring bores approximately 500 m to the north-east occupied by the 7-Eleven Greenacre service station.<br>Three groundwater monitoring wells were installed as part of the DSI with standing water depths ranging between 7.44m and 9.06m below ground level (24-40.95mAHD). Based on local topography, groundwater is anticipated to flow south, towards Salt Pan Creek. |

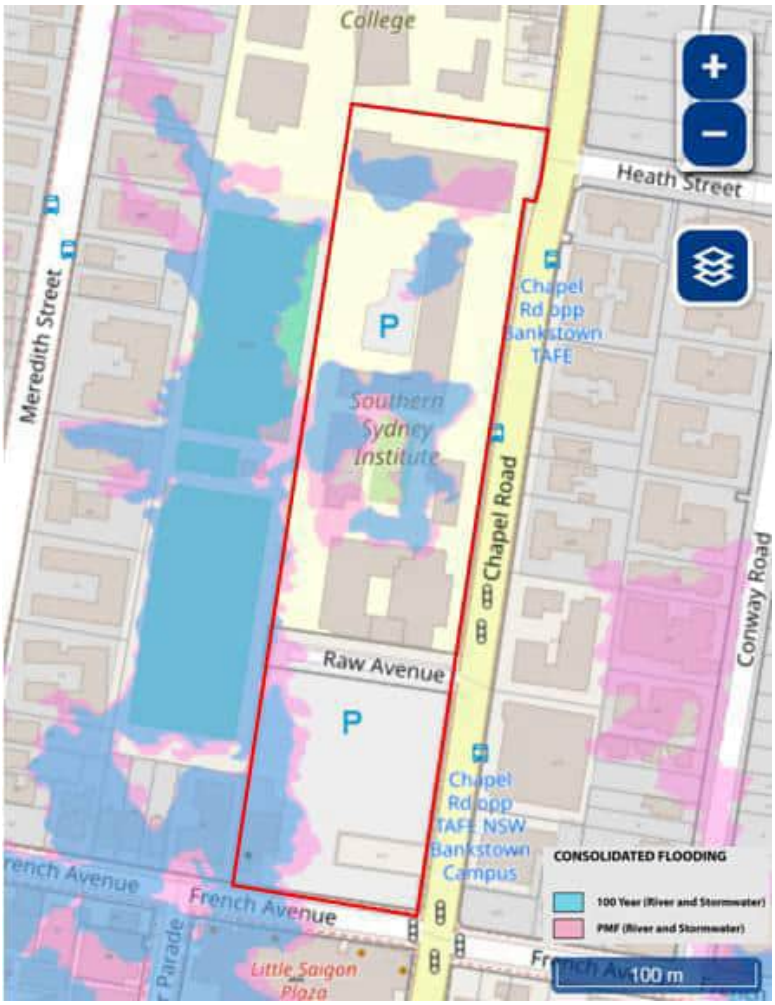


Figure 4-2 Flood planning map (Canterbury-Bankstown Council)

# 5. Remediation Assessment Criteria

## 5.1 Soil

### 5.1.1 General

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 and Levels (HILs/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.

Adopted human health site assessment criteria were sourced from NEPM (2013) Schedule B1. Human exposure is likely to apply to hospital staff, patients and visitors, and construction or maintenance workers. The following health criteria are considered relevant:

- HIL C – Recreational public open space (the final design is not available and there is potential for grassed/vegetated open space areas to be included in the design)
- HIL D – Commercial/industrial (for protection of general workers and visitors[1]).

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).

### 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. Similarly to the HILs defined in Section 5.1.2, considering the proposed hospital construction, the following ecological soil assessment criteria were adopted:

- Urban residential and public open space
- Commercial and Industrial

For assessment against EILs, soil analytical results will be compared with the NEPM (2013) Generic EILs to assess potential risks to current and future ecological receptors at the site for selected analytes (arsenic, lead and naphthalene). For other analytes (including copper, chromium, nickel and zinc) the EIL values rely on site-specific inputs and calculations.

Site-specific EIL input values were calculated by incorporating the average values of soil physiochemical parameters (pH, CEC and TOC) as presented in the DSI report. 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.

### 5.1.4 Management Limits

Management Limits are adopted 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:

- 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 and criteria for bonded Asbestos Containing Material (ACM) and Friable Asbestos (FA) and Asbestos Fines (AF).

### 5.1.6 Aesthetic Criteria

Aesthetic criteria are generally not considered relevant for a commercial/industrial land use. Since the proposed redevelopment may include some areas being used for open space aesthetic criteria will be adopted for these areas.

### 5.1.7 Adopted Soil Remediation Criteria

The relevant remediation criteria for known or potential contaminants of concern are summarised in Table 5–1 and the adopted criteria selected is the lowest of all relevant criteria.

Table 5-1 Adopted Remediation Criteria (Soil)

| Adopted Remediation Criteria | | NEPM 2013 Table 1A(1) HIL C Recreation and Table 7 (Asbestos) | NEPM 2013 Table 1A(1) HIL D (Comm./Ind.) and Table 7 (Asbestos) | NEPM 2013 Table 1A(3) HSL A/B Residential Vapour Intrusion, Sand (≥0m, <1m) | NEPM 2013 Table 1A(3) HSL C Rec. HSL for Vapour Intrusion, Sand (≥0m, <1m) | NEPM 2013 Table 1A(3) HSL D (Comm./Ind.) HSL for Vapour Intrusion, Sand (≥0m, <1m) | CRC Care 2011 Table B3 Soil HSLs for Vapour Intrusion - Intrusive Maintenance Worker Shallow Trench (Sand, 0 to <2m) | CRC Care 2011 Table B4 Soil HSL for direct contact HSL A Residential | CRC Care 2011 Table B4 Soil HSL for direct contact - HSL C Rec. | CRC Care 2011 Table B4 Soil HSL for direct contact - HSL D (Comm./Ind.) | CRC Care 2011 Table B4 Soil HSL for direct contact Intrusive maintenance worker. | NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil | NEPM 2013 Table 1B(7) Management Limits Comm./Ind., Coarse Soil | NEPM 2013 Table 1B(4, 5 &6) Generic EIL/ESL - and site specific EIL (SMEC) Urban Res & Public Open Space | NEPM 2013 Table 1B(4, 5 &6) Generic EIL/ESL - and site specific EIL (SMEC) Comm./Ind. | Adopted Criteria |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Contaminant | Unit | | | | | | | | | | | | | | | |
| Benzene | mg/kg | - | - | 0.5 | NL | 3 | 77 | 100 | 120 | 430 | 1100 | - | - | 50 | 75 | 0.5 |
| Toluene | mg/kg | - | - | 160 | NL | NL | NL | 14,000 | 18,000 | 99,000 | 120,000 | - | - | 85 | 135 | 85 |
| Ethylbenzene | mg/kg | - | - | 55 | NL | NL | NL | 4,500 | 5,300 | 27,000 | 85,000 | - | - | 70 | 165 | 55 |
| Xylene Total | mg/kg | - | - | 40 | NL | 230 | NL | 12,000 | 15,000 | 81,000 | 130,000 | - | - | 105 | 180 | 40 |
| F1 minus BTEX | mg/kg | - | - | 45 | NL | 260 | NL | - | - | - | - | - | - | 180 | 215 | 45 |
| F2 minus Naphthalene | mg/kg | - | - | 110 | NL | NL | NL | - | - | - | - | - | - | - | - | 110 |
| C6-C10 | mg/kg | - | - | - | - | - | - | 4,400 | 5,100 | 26,000 | 82,000 | 700 | 700 | - | - | 700 |
| >C10-C16 | mg/kg | - | - | - | - | - | - | 3,300 | 3,800 | 20,000 | 62,000 | 1,000 | 1,000 | 120 | 170 | 120 |
| >C16-C34 | mg/kg | - | - | - | - | - | - | 4,500 | 5,300 | 27,000 | 85,000 | 2,500 | 3,500 | 300 | 1700 | 300 |
| >C34-C40 | mg/kg | - | - | - | - | - | - | 6,300 | 7,400 | 38,000 | 120,000 | 10,000 | 10,000 | 2800 | 3,300 | 2,800 |
| Arsenic | mg/kg | 300 | 3,000 | - | - | - | - | - | - | - | - | - | - | 100 | 160 | 300 |
| Cadmium | mg/kg | 90 | 900 | - | - | - | - | - | - | - | - | - | - | - | - | 90 |
| Chromium (VI) | mg/kg | 300 | 3600 | - | - | - | - | - | - | - | - | - | - | 580 | 970 | 300 |
| Copper | mg/kg | 17,000 | 240,000 | - | - | - | - | - | - | - | - | - | - | 170 | 240 | 17,000 |
| Lead | mg/kg | 600 | 1,500 | - | - | - | - | - | - | - | - | - | - | 1,100 | 1800 | 600 |
| Mercury (inorganic) | mg/kg | 80 | 730 | - | - | - | - | - | - | - | - | - | - | - | - | 80 |
| Nickel | mg/kg | 1,200 | 6,000 | - | - | - | - | - | - | - | - | - | - | 230 | 390 | 1,200 |
| Zinc | mg/kg | 30,000 | 400,000 | - | - | - | - | - | - | - | - | - | - | 420 | 610 | 30,000 |
| Aldrin + Dieldrin | mg/kg | 10 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| Chlordane | mg/kg | 70 | 530 | - | - | - | - | - | - | - | - | - | - | - | - | 70 |
| DDT | mg/kg | - | - | - | - | - | - | - | - | - | - | - | - | 180 | 640 | 180 |
| DDT+DDE+DDD | mg/kg | 400 | 3,600 | - | - | - | - | - | - | - | - | - | - | - | - | 400 |
| Endrin | mg/kg | 20 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| Heptachlor | mg/kg | 10 | 50 | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| Methoxychlor | mg/kg | 400 | 2,500 | - | - | - | - | - | - | - | - | - | - | - | - | 400 |
| Toxaphene | mg/kg | 30 | 160 | - | - | - | - | - | - | - | - | - | - | - | - | 30 |
| Chlorpyrifos | mg/kg | 250 | 2,000 | - | - | - | - | - | - | - | - | - | - | - | - | 250 |
| Carcinogenic PAHs (as BaP TEQ) | mg/kg | 3 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Benzo(a) pyrene | mg/kg | - | - | - | - | - | - | - | - | - | - | - | - | 0.7 | 1.4 | 0.7 |
| Naphthalene | mg/kg | - | - | - | - | - | - | - | - | - | - | - | - | 170 | 370 | 170 |
| PAHs (Sum of total) | mg/kg | 300 | 4,000 | - | - | - | - | - | - | - | - | - | - | - | - | 300 |
| PCBs (Sum of total) | mg/kg | 1 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| Asbestos Criteria | | | | | | | | | | | | | | | | |
| Bonded ACM | % | 0.02 | 0.05 | - | - | - | - | - | - | - | - | - | - | - | - | 0.02 |
| Friable asbestos (FA) and asbestos fines (AF) | % | 0.001 | 0.001 | - | - | - | - | - | - | - | - | - | - | - | - | 0.001 |
| All forms of asbestos | | No visible asbestos for surface soil | No visible asbestos for surface soil | - | - | - | - | - | - | - | - | - | - | - | - | No visible asbestos for surface soil |

Notes:

Refer to SMEC (2025) DSI report for derivation of site specific EILs

HSLs for vapour intrusion conservatively assumed as soil type 'sand' and depth of 0 to <1m as final design details are unknown. These may be able to be updated once final design details are available

Soil type conservatively assumed as 'coarse'. These may be able to be updated once final design details are available and observed soil type.

# 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.

The NSW Water Quality Objectives (WQOs) are the agreed environmental values and long-term goals for NSW's surface waters for 31 catchments in NSW. They set out the community's values and uses for our rivers, creeks, estuaries and lakes (i.e. healthy aquatic life, water suitable for recreational activities like swimming and boating, and drinking water); and a range of water quality indicators to help us assess whether the current condition of our waterways supports those values and uses. This Site is inferred to be within the Georges River catchment where groundwater may eventually discharge into Salt Pan Creek which eventually flows into the Georges River.

The water quality objectives listed for the Georges River catchment include:

- Aquatic ecosystems
- Visual amenity
- Secondary contact recreation
- Primary contact recreation
- Livestock water supply
- Irrigation water supply
- Homestead water supply
- Drinking water – disinfection only or clarification and disinfection
- Drinking water groundwater
- Aquatic foods (cooked)
- Industrial water supplies.

## 5.2.2 Health Criteria

Vapour Intrusion

Health Screening Levels (HSLs) for petroleum hydrocarbons are available from ASC NEPM (NEPC 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 the invert level of the final design. Considering the proposed development, the following groundwater HSL criteria were adopted at the Site:

- HSL C ‘recreational/open space’ and HSL A Residential with accessible soils.

We note that as the Site may require cuts into the natural slope, the depth of the cut needs to be accounted for in the application of the depth.

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.

### Drinking

A search of registered bores did not suggest that groundwater is currently extensively used for drinking in the area. An assessment of the suitability of water for drinking based on salinity levels as measured in the field by electrical conductivity were made. Electrical conductivity as measured from the three groundwater monitoring wells ranged between 13,000 µS/cm to 14,000 µS/cm - which converts to Total Dissolved Solid (TDS) values ranging from approximately 8,000 mg/l to 9,000mg/l[2]. TDS values greater than about 2,000mg/l are not considered suitable for drinking, therefore drinking water quality criteria are not considered relevant.

[2] Approximated by multiplying EC by 0.64 to convert to TDS

# 6. Site Characterisation

## 6.1 Areas of Environmental Interest

Based on the Site history and observations from the SMEC (2025) DSI report and previous reports, five main potential contaminating activities and associated contaminants of potential concern (CoPC) for the were identified in the preliminary conceptual site model and these are presented in Table 6–1 below.

Table 6–1: Summary of identified AEI and CoPC

| AREA OF ENVIRONMENTAL INTEREST | | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC | Description |
|---|---|---|---|---|---|
| AEI1 | The whole Site from potential fill of unknown origin and quality. | Medium | Soil, Groundwater | Metals, TRH, BTEX, OCP, OPP, PAH, PCB | The Site has been retained with multiple large retaining walls, the condition of the fill used to fill and level the Site is unknown. |
| AEI2 | Areas near former and existing structures from weathering and/or ineffective demolition of hazardous building materials | High | Soil | Asbestos, Lead | Numerous historical buildings existed throughout the southern and central portions of the Site. Some residential buildings were built circa 1940s with further construction continuing into the late 1950s. A TAFE building was also demolished circa 2002. Most of the demolishment of residential dwellings appeared to occur around the 1970-1980s. |
| AEI3 | Transformer from potential use of oils (including oils with PCBs) | Low | Soil | TRH, PCB | Transformers can contain oils that could have contained PCBs. No access was provided at the time of our inspection; therefore, the size and condition of the transformer is unknown. |
| AEI4 | Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator | High | Soil and groundwater | Metals, TRH, BTEX, OCP, OPP, PAH, VOC | Access was not provided at the time of our visit, the storeroom in believed to have housed the maintenance equipment for the Site. Historical records revealed a flammable goods store, an underground fuel tank (500L) and reference to an incinerator, this was not accessible at the time of assessment, however photos provided by on Site staff suggested a tank may still be present. |

| AREA OF ENVIRONMENTAL INTEREST | | LIKELIHOOD OF CONTAMINATION | MEDIA POTENTIALLY AFFECTED | COPC | Description |
|---|---|---|---|---|---|
| AEI5 | The offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams). | Low | Groundwater | PFAS | Bankstown Fire station is located approximately 190m northwest of the Site (upgradient). Fire stations have been known to historically store and use firefighting foams, containing PFAS. The historical use of this fire station is not known. |

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.
- TRHs (total recoverable hydrocarbons), BTEX (benzene, toluene, ethylbenzene, xylene), metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc), PAHs (polycyclic aromatic hydrocarbons), OCPs (organochlorinated pesticides), OPPs (organophosphorus pesticides), PCBs (polychlorinated biphenyls), VOCs (volatile organic compounds), PFAS (per- and poly-fluoroalkyl substances)
- The locations of the AEIs are presented in Figure 6-1.

Figure 6-1 Areas of Environmental Interest

Observations of the chemical storage within Building D, showed minor concentrations of commercial grade beauty products such as acetone, bleach and hair dyes stored in appropriate cabinetry with no signs of spillage, therefore SMEC does not consider this to be an AEI. Similarly, fuel storage within the TAFE showed very minor concentrations of fuel stored in jerry cans in an appropriately locked outdoor cabinet with no sign of spillage, therefore SMEC does not consider this to be an AEI.

## 6.2 Site Investigations

Two previous intrusive investigations have been carried out at the Site. One by JBS&G (2020b) as part of a due diligence assessment and more recently a DSI by SMEC (2025). The SMEC DSI summarised details of previous investigations.

JBS&G (2020b) undertook an intrusive due diligence contamination assessment (DDCA) of Bankstown TAFE, for HINSW. The investigation included soil sampling from 23 borehole locations. The reporting was limited to a 2-page draft memorandum including a cover letter with attachments and did not include full details of the works or quality assurance/quality control, therefore data can only be regarded as preliminary. Investigation locations are shown in Figure 2, Appendix A.

The SMEC (2025) DSI included sampling at the Site from accessible AIEs from thirty two sample locations using a combination of large diameter auger boreholes and test pits. In addition, groundwater was assessed through installation of three groundwater monitoring wells.

Table 6–2 provides an outline of the methodology for sampling locations with respect to AEIs.

Table 6–2 Summary of identified AEIs and sampling methodology.

| AEI | | Methodology |
|---|---|---|
| AEI1 | The whole Site from potential fill of unknown origin and quality. | Thirty two (32) additional soil sample locations (TP101 to TP132) using a combination of systematic and judgemental sampling techniques were used to supplement previous data collected. Some locations were slightly adjusted due to existing buildings and access. Three groundwater monitoring wells were installed to assess general groundwater quality.<br>Due to the number of previously demolished structures in the south and asbestos already having been recorded in the fill, the number of locations did not aim to assess if the Site is 'free' of asbestos but rather give an indication of how widespread this may be to inform a remedial and validation approach. Gravimetric sampling for asbestos was carried out using larger diameter boreholes/test pits. |
| AEI2 | Areas near former structures from weathering and/or ineffective demolition of hazardous building materials | |
| AEI3 | Transformer | One sample location was positioned in an accessible area near this transformer to be used for soil sampling. As the transformer was still existent onsite, the footprint was not able to be directly assessed. |
| AEI4 | Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator | Due to the nature of the maintenance storage room still existing, the footprint was not be sampled. Building E still exists above the underground fuel storage tank, the immediate vicinity was not able to be sampled. One sample location and groundwater well were installed in an inferred downgradient location as close as possible to this area based on access. |
| AEI5 | Whole of site from the offsite Bankstown Fire Station – from potential storage/use of per- and poly-fluoroalkyl substances (PFAS) (contained in firefighting foams). | The three groundwater monitoring wells mentioned in AEI1 were sampled for PFAS, with each well situated at different locations onsite to assess the groundwater entering and within the Site. |

All investigation locations are shown in Figure 2, Appendix A.

Previous investigation and DSI field observations and analytical results were considered in the DSI. The analytical data obtained from new locations undertaken as part of the DSI generally supported the JBS&G analytical data.

# 6.3 Results

## 6.3.1 Ground conditions

- Fill was observed at all sampling locations comprising of varied mixtures of clay, gravel, silt, sand, cobbles, with anthropogenic material observed at 9 locations, ash inclusions were observed at 4 locations. Fill depth varied across the Site due to the cut and fill nature, with a maximum depth of 1.8m bgl in the central portion of the Site. Suspected ACM was observed at sample locations TP111, TP112, TP115, TP119, TP122 (asbestos was detected at extra locations through laboratory analysis as described further below)
- Traces of anthropogenic inclusions were recorded within the fill. Under the proposed development scenario, the amount of anthropogenic material is considered unlikely to pose an aesthetic issue, but if on Site reuse is proposed use of materials with these anthropogenic inclusions should be avoided at the surface of landscaped areas.
- The fill was underlain by residual clayey soils and weathered shale.

## 6.3.2 Analytical Results

The results of the investigations have been compared to the remediation assessment criteria in Section 5.

Summary tables from the SMEC (2025) DSI comparing results to the remediation criteria are included in Tables C1 to C3, Appendix C. The JBS&G results were not available electronically and copies of summary tables also included in Appendix C.

Soil

Soil concentrations exceeding the adopted remediation assessment criteria are summarised in Table 6–3.

Table 6–3: Summary of Soil Exceedances

| Analyte | Criteria | Range of Exceedances | Locations | Comments |
|---|---|---|---|---|
| Health Exceedances | | | | |
| Asbestos in both bonded and AF/FA forms | AF/FA 0.001%<br>ACM 0.01% | AF/FA 0.002% to 0.006%<br>ACM 0.027% to 0.1148% | TP105_0.1-0.2<br>TP112_0.3-0.4<br>SS11_0-0.7 | |
| | | *ACM observed (but less than criteria)* | *TP111_0.4-0.5*<br>*TP113_0.3-0.4*<br>*TP115_0.3-0.4*<br>*TP119*<br>*TP122_0.1-0.5*<br>*SS23* | Whilst ACM was observed at less than the criteria for the proposed land use it may still impact construction. This will require removal to negate any ongoing future restrictions on the Site. |
| Lead | 600mg/kg | 770-1,500mg/kg | SS23_0.4<br>TP132_0.2-0.3 | Lead at location S23 is considered a 'hotspot'.<br>Statistical assessment of data shows that the exceedance at TP132 is not considered significant and not considered to warrant remediation. |
| Chromium total (exceeding Chromium VI criteria) | 100mg/kg (Cr VI) | 230-290mg/kg | SS03_0.3<br>SS04_0.2 | We note that the criteria exceeded was for Chromium VI whereas the test was for total chromium. As a source of Chromium VI was not identified, based on Site history, these exceedances are not considered significant and not considered to warrant remediation. |
| Ecological Exceedances | | | | |
| Arsenic | 100mg/kg | 180mg/kg | TP101_0.1-0.5 | Statistical assessment of data shows these exceedances are not significant and do warrant remediation. See discussion below table. |
| Benzo(a)pyrene | 0.7mg/kg | 0.9 mg/kg | TP111_0.4-0.5 | |
| Zinc | 420mg/kg | 670mg/kg | S23_0.4 | |

The 95% upper confidence limit (UCL) of the arithmetic average concentration was estimated based on the available data sets for both arsenic, lead, zinc and benzo(a)pyrene using ProUCL. Where sample locations were in close proximity, the SMEC data was utilised and checked that it was of generally similar or greater concentration than the JBS&G data. The data was assessed against the data quality objectives as stated in the DSI report:

- Where sufficient data has been collected on a systematic pattern, the 95% Upper Confidence Limit (UCL) of the arithmetic mean contaminant concentration (excluding asbestos) should be below the assessment criteria and the results must also meet the following:
  - No single value is to exceed 250% of the human health remediation criteria
  - The standard deviation must be less than 50% of the human health remediation criteria.

The lead exceedance at location S23 was considered a hotspot as the concentration exceeded 250% of the adopted criteria and therefore the lead concentration at this location was excluded from the data set.

Data was used from fill or only surface residual layers were directly under pavements. Deeper natural samples were excluded from the data set. The 95% UCL results and data used are included in Appendix E.

The 95% UCL results showed concentrations below the adopted remediation criteria (Arsenic 38mg/kg, lead 72mg/kg, zinc 106mg/kg and benzo(a)pyrene 0.29mg/kg) and met the decision rule requirements as per Step 5 of the DQOs of the DSI.

### Groundwater

Exceedances of the ecological criteria for protection of aquatic ecosystems was recorded for copper, nickel and/or zinc in wells BH102 and BH103. Whilst no exceedances of the adopted criteria were recorded in the inferred upgradient well (BH101), it is noted that an explicit source of copper, nickel and/or zinc on the Site that could affect groundwater located at a depth of over 7m within a fractured rock aquifer appears unlikely. The metal concentrations could be natural and within the natural variability. These are therefore not considered significant in the context of the proposed development.

Some PFAS compounds were detected in all three monitoring wells. PFAS was not recorded above the assessment criteria in the northern well (BH101) or southern well (BH103) for the available PFAS criteria. PFOS was recorded at a concentration of 0.0043µg/l, above the 99% species protection criteria of 0.0023µg/l in the central well (BH102). Due to the elongated nature of the Site the wells did not provide triangulation to allow contours to be estimated and overall flow direction. Based on the topography, the groundwater flow is expected to be in a broadly southerly direction. The Bankstown Fire Station is located approximately 200m north-west of the Site and inferred to be partially upgradient based on topographic contours. There are data gaps in terms of the activities at the fire station and if PFAS is of an actual concern. We note that reference to the NSW Fire and Rescue website (accessed 3/2/2025) did not list the Bankstown site as a current investigation site.

We note that the PFOS 99% species protection criteria is a regarded as a conservative criterion and applies at the discharge point. In this case this has been inferred to be Salt Pan Creek about 1km south of the Site.

The source of the PFOS is not clear at this stage since it has been recorded in the central part of the Site and not upslope or downslope. This is also based on only one round of groundwater monitoring. Since the primary potential source is located offsite, issues relating to PFAS are considered to be not a HINSW responsibility and unlikely to affect the proposed development. The DSI indicated that if dewatering is going to be a requirement, for cuts into the natural slope, then this would need to be considered in terms of disposal.

A copy the groundwater results summary is included in Table C4, Appendix C.

### Preliminary Waste Classification

A Preliminary Waste Classification was undertaken using the data from the DSI. In summary the results concluded that soils which are found to contain asbestos would classify as special waste and be General Solid Waste (to be managed as asbestos). Soils comprising fill or disturbed ground and not containing asbestos appear to be able to be classified as General Solid Waste (non-putrescible) from the areas tested.

A copy the waste classification results summary is included in Table C5, Appendix C.

Logs of previous sample locations from both the JBS&G (2024) report and SMEC (2025) DSI are included in Appendix B. Selected photographs of the Site are presented in Appendix D.

## 6.4 Revised Conceptual Site Model (CSM)

A CSM was prepared for the Site as part of the DSI (SMEC 2025), which presented the potential source(s), pathway(s) and ecological/human receptor(s) with respect to the identified AEIs and CoPC.

The revised CSM is summarised in Error! Reference source not found. based on known/potential areas of contamination.

Table 6–4: Potentially complete contamination source, pathway and receptor linkages

| Source / Remediation Area | Potential Exposure/Migration Pathway | Potential Receptor(s) | S-P-R Linkage |
|---|---|---|---|
| • Lead near S23 (AEI 2) | • Direct dermal contact/ ingestion of contaminated soils<br>• Inhalation of soil dust exposing soil during earthworks and runoff to offsite receptors<br>• Ingestion of contaminated soil.<br>• Uptake by plants (if impacted soils reused in landscape areas) | • Future workers, patients, visitors<br>• Construction and maintenance workers<br>• Nearby off-site human receptors from windblown fibres/contaminated dusts during construction works<br>• Downgradient offsite commercial occupants and offsite maintenance workers<br>• Aquatic ecosystems in surface water receptors.<br>• On-site plants/terrestrial organisms | Likely complete if not managed |
| • Asbestos impacted areas in the southern and central parts of the Site (AEI 2) | • Inhalation of soil dust or fibres | • Future workers, patients, visitors<br>• Construction and maintenance workers<br>• Nearby off-site human receptors from windblown fibres/contaminated dusts during construction works | Likely complete if not managed |
| • Transformer (AEI 3) | • Direct dermal contact/ ingestion of contaminated soils<br>• Inhalation of soil dust exposing soil during earthworks and runoff to offsite receptors<br>• Ingestion of contaminated soil.<br>• Uptake by plants (if impacted soils reused in landscape areas) | • Future workers, patients, visitors<br>• Construction and maintenance workers<br>• Nearby off-site human receptors from windblown fibres/contaminated dusts during construction works<br>• Downgradient offsite commercial occupants and offsite maintenance workers<br>• Aquatic ecosystems in surface water receptors.<br>• On-site plants/terrestrial organisms | Plausible, further investigation required |

| Source / Remediation Area | Potential Exposure/Migration Pathway | Potential Receptor(s) | S-P-R Linkage |
|---|---|---|---|
| • Former maintenance storeroom/flammable store and underground fuel storage tank and possible historical incinerator (AEI 4) | • Direct dermal contact/ ingestion of contaminated soils<br>• Vapour intrusion<br>• Risk of fire/explosion | • Construction workers<br>• Future workers, patients, visitors<br>• Maintenance workers | Likely complete if not managed |
| • Areas beneath existing building footprints (from fill and former structures associated with AEI 1 and 2) | • Direct dermal contact/ ingestion of contaminated soils<br>• Inhalation of soil dust exposing soil during earthworks and runoff to offsite receptors<br>• Ingestion of contaminated soil<br>• Uptake by plants (if impacted soils reused in landscape areas) | • Future workers, patients, visitors<br>• Construction and maintenance workers<br>• Nearby off-site human receptors from windblown fibres/contaminated dusts during construction works<br>• Downgradient offsite commercial occupants and offsite maintenance workers<br>• Aquatic ecosystems in surface water receptors.<br>• On-site plants/terrestrial organisms | Plausible, further investigation required |

## 6.5 Data Gaps

Following the desktop review, SMEC considered the following data gaps present at the Site.

- Exact TAFE activities in all areas is not fully documented including past chemical and waste storage practices/locations.
- Historical subjects, trades and practical activities are not fully known.
- The extent of some contamination may not be well delineated to allow remedial extents to be defined without further delineation sampling.

# 7. Remedial Action Plan

## 7.1 Remediation Goal

The remediation goal is to remove/reduce residual contaminant concentration levels at the Site such that the Site:

- May be assessed to be suitable for its intended purpose as a hospital.
- Does not pose an unacceptable risk to human health or the environment.

In addition to the above, HINSW has indicated that Site remediation is to be carried out prior to construction - as an early works package - so that contamination is addressed prior to construction contractors establishing to Site. HINSW initial preference was that all contamination was removed from the Site and relevant clearance/validation documentation issued so that the building contractor had a 'clean' Site and the likelihood of unexpected finds is reduced. Subsequently HINSW requested the additional option of an onsite containment cell for asbestos impacted material be include as an option within this RAP.

## 7.2 Remediation Required

Based on the results of previous investigations and the CSM presented in Section 6.4 the following areas of the Site are considered to require further assessment and/or remedial actions:

- Lead (hotspot) in the area near sample location S23.
- Soils with asbestos in the southern and central parts of the Site. All areas with known asbestos are to be removed so that the likelihood of unexpected finds during construction is reduced.
- Further assessment/validation following removal of the transformer.
- Removal of the underground fuel storage tank from the former maintenance storeroom/flammable store and validation of the area.
- Further assessment of areas below building footprints that were not accessible at the time of previous investigations following demolition.

## 7.3 Remediation Options Review

### 7.3.1 NSW EPA Remediation Management Hierarchy

The ASC NEPM Toolbox (Key Principles for the Remediation and Management of Contaminated Sites) outlines the preferred hierarchy of options for Site clean-up and/or management as follows:

- On-site treatment of the soil so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level.
- Off-site treatment of excavated soil so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level, after which the soil is returned to the Site.

If the above are not practicable, then other options for consideration should include:

- Removal of contaminated soil to an approved Site or facility followed by, (where necessary) replacement with clean fill.
- Isolation of the contamination on-site in an appropriately designed and managed containment facility.
- A less sensitive land use to minimise the need for remedial works which may include partial remediation.
- Leaving contaminated material in-situ providing there is no immediate danger to the environment or community and the Site has appropriate management controls in place.

ASC NEPM (1999) also indicates that:

- Clean-up should not proceed if the process is likely to create a greater adverse effect than leaving the Site undisturbed. This decision would need to be revised in the light of new technologies or clean-up strategies becoming available.
- Sustainability of options should be considered.

### 7.3.2 Remediation Options Evaluation

CRC CARE has prepared a set of guidelines which form a National Framework for Remediation and Management of Contaminated Sites in Australia. Guidance is available on remediation options assessment, various remediation technologies and for implementation and post remediation.
Table 7–1Error! Reference source not found. below provides an appraisal of the remedial options.

Table 7–1: Remediation Options Evaluation

| Remedial Option | Discussion |
|---|---|
| On-site treatment and reuse | If the quantities of asbestos are relatively small and asbestos is in bonded form, then on-site treatment using soil tilling and 'emu' picking to remove fragments can be a potential remedial option. This however is unacceptable for areas with friable asbestos/asbestos fines.<br>Due to expected smaller volumes of soils impacted by lead, on-site treatment may not be cost effective due to high set up costs. These soils may be able to be managed using other techniques described below. |
| Off-site treatment and reuse back on-site | Given the available space on-site for remediation, and the costs involved with off-site treatment and haulage to and from the Site and also considering the negative environmental impacts of this method in comparison to other possible methods, this option is not considered to be appropriate. |
| On-site containment | Onsite containment, with associated Long Term Environmental Management Plan (LTEMP), for asbestos impacted soils is an environmentally sustainable solution as it will allow for the isolation of the asbestos containing material from potential receptors while reducing traffic congestion, the use of fuel and will not take up valuable landfill space. This option will also reduce the waste disposal costs. |
| Removal offsite | This is a plausible option for this Site and removes the contamination without the need for any ongoing management, however, it is further down the remediation management hierarchy in comparison to other methods e.g. on-site treatment and re-use.<br>Offsite disposal of contaminated material will allow HINSW to undertake remediation prior to construction contractors establishing to Site but could be an expensive option, subject to disposal volumes. |
| Management Strategy | Contaminated soils management and administrative controls may be adopted in areas of less sensitive land use, potentially in combination with a covering or capping layer. For this option, administrative controls would be documented within a Long Term Environmental Management Plan (LTEMP).<br>This method is considered to be sustainable, however, future development would be restricted in any area(s) where this option is applied, and potentially may require further remediation. |

### 7.3.3 Preferred Remedial Option

Based on the remedial options evaluation, a review of specific technologies is not considered warranted.

Based on a meeting with representatives of Capital Insight Pty Ltd and HINSW on 14 October 2025, two preferred remedial options were identified.

1. Onsite encapsulation of asbestos impacted soils within a containment cell and development and implantation of associated Long-term Environmental Management Plan), and
2. Excavation and offsite disposal for non-asbestos impacted contaminated materials

# 8. Remediation

## 8.1 Overview

The remedial works that are required to be carried out are described in the following subsections. Remediation works will involve the following general activities

- Set up Site controls.
- Assessment of the transformer area once removed.
- Assessment of areas beneath building footprints once removed.
- Removal of the underground storage tank and pipework and validation.
- Excavation of known contaminated soils.
- Validation sampling to confirm effective removal of contaminated soils.
- Soil tilling across the southern part of the Site following removal of buildings and pavements. Due to the extent and number of previous housing structures in the southern part of the Site (as was previously shown in Figure 3-1 earlier) the potential for ACM to be present in this area is regarded as 'high', therefore tilling of fill across this area is proposed to reduce potential for later unexpected finds.
- Isolation and encapsulation of asbestos impacted soils in a dedicated containment cell. This will require
  - Excavation of the cell within the preferred location (see section 8.1.4, Figure 8-1)
- Offsite disposal of wastes to a suitably licensed facility
- Preparing a validation report
- Preparation of a Long-Term Environment Management Plan (LTEMP) for the ongoing management of the onsite Containment Area

### 8.1.1 On-site Capping

On-site capping of contaminated material addresses the remediation objectives via the installation of an impervious engineering cap layer thereby providing a physical barrier between the contaminated soils and potential receptors. In principle, key elements of this option would include:

1. Excavation of contaminated soils;
2. Consolidation in containment cell of asbestos impacted material; and
3. Definition of management requirements under a long-term environmental management plan.

Consolidation of contaminated materials within the containment cell as part of the development would simplify management requirements. As such, excavation of the upper 0.5m and subsequent consolidation/capping should be sufficient to mitigate risks to future receptors.

### 8.1.2 Containment Cell Construction Requirements

1. The containment cell should be positioned a minimum 100m from the 1 in 100-year flood level.
2. The containment cell must have a minimum separation distance between the base of the cell and the highest seasonal water table level of at least 1m.
3. Asbestos Containing Material placed into the containment cell is to be compacted to 95% of its maximum possible dry density, in 300 mm lifts
4. A geotextile marker layer (or similar) is required to be installed above the compacted material and below the capping layer
5. The capping layer must be a minimum of thickness of 500mm

6. To prevent surface water percolation through the contaminated material, the capping layer must have a coefficient of permeability not exceeding 1 X $10^{-9}$m/s.
7. Once completed the cell shall be surveyed and the location coordinates included in an Long-term Environmental Management plant prepared in accordance with the NSW EPA (2022) preparing environmental management plans for contaminated land practice note
8. A Long-term Environmental management Plan (LTEMP) is required which should clearly states
    - its objectives
    - who is responsible for implementing it
    - the time frames for completing the actions it specifies, and who will undertake those actions
    - its key stakeholders, and how they have been engaged in developing the LTEMP
    - a mechanism for monitoring its implementation
    - where it will be recorded and how the public will be made aware of it.

### 8.1.3 Proposed Location of Containment Cell

The proposed general location of the onsite containment cell is below the surface parking area, highlighted in red, within Figure 8-1 below.

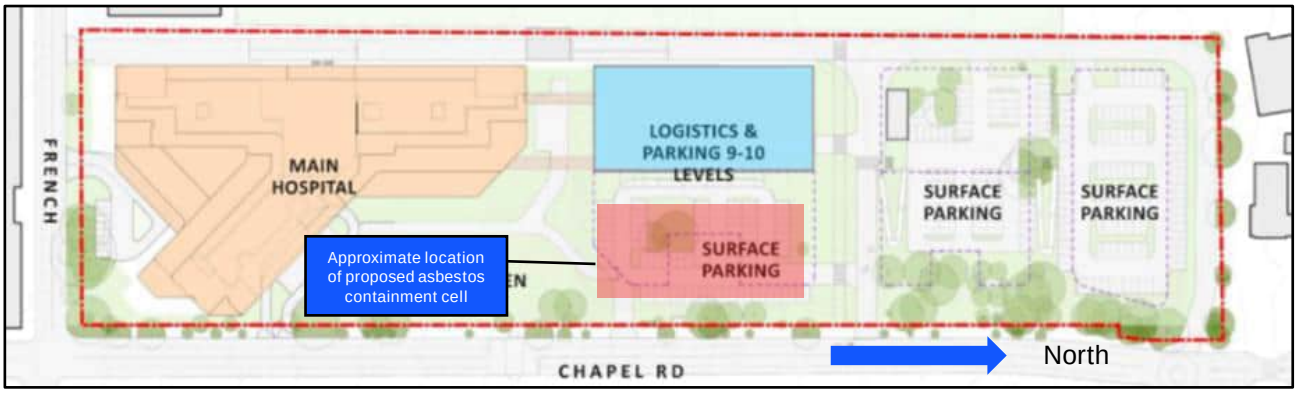


Figure 8-1 Approximate location of proposed containment cell

The specifications of the containment cell will be determined once specific waste volumes have been determined.

### 8.1.4 Planning certificates

Planning certificates issued by local authorities (typically councils) under section 10.7(2) of the EP&A Act must include certain information about land contamination. Schedule 4(7) of the EP&A Regulation sets out these matters in full. They include, but are not limited to, whether the land is subject to any:

- council policy or restriction on the land's use
- notice, such as an ongoing maintenance order, issued by the EPA under the CLM Act
- site audit statement previously provided to council.

Councils may choose to include other information on a certificate issued for any property under section 10.7(5) of the EP&A Act. This is usually done in response to a specific request by a person applying for a land title search. For example, where a council holds a site audit statement about a remediated property, the council may on request provide a copy of that statement, including any associated LTEMP and related documents (e.g. monitoring reports).

### 8.1.5 Land title

Any covenant or restriction under the Conveyancing Act is recorded on the land title and disclosed to any person who conducts a title search. Consultants preparing a LTEMP may wish to propose that the site owner register a covenant on the land title for the site (section 88B), to increase transparency about the residual contamination and its management.

Regulators may also provide additional information, on request, about contaminated land, such as an EMP and associated documents (including monitoring reports).

Information about contaminated land can also be included in site-specific standard operating procedures or safe work method statements prepared by utilities e.g. Sydney Water or Energy Australia.

### 8.1.6 Roles and responsibilities

An overview of the key roles and responsibilities for the implementation of the RAP are summarised in Table 8–1Error! Reference source not found..

Table 8–1: Remediation Options Evaluation

| Role | Key Responsibilities |
|---|---|
| Client (HINSW) | Overall responsibility for the project<br>Community consultation / stakeholder engagement<br>Engaging a remediation contractor and environmental representative<br>Oversight of workplace health and safety.<br>Ensure that the EMP is recorded |
| Remediation Contractor* (and licenced asbestos removal contractor) | All remedial works (excavation, disposal etc)<br>Workplace safety<br>Service location and disconnection<br>Site security<br>Site environmental management<br>Incident response<br>Site amenities. |
| Environmental Representative | Guiding extent of remedial activities<br>Validation observations, sampling and analysis<br>Waste Classification<br>Provide advice if unexpected finds encountered<br>Validation reporting. |

* Assumes remediation contractor is the Principal Contractor

### 8.1.7 Responsibilities of Asbestos Removalist

#### 8.1.7.1 Licensing and Permits

Work health and safety regulations place obligations on licence holders to ensure that asbestos work is performed in a manner that reduces the risk to the health of both asbestos works and the public.

Asbestos removal work is required to be carried out by a contractor with an NSW asbestos removal licence. Asbestos has been found in both bonded and friable form therefore a Class A licence is required.

SafeWork NSW is required to be notified five calendar days before undertaking any licenced asbestos removal work using the appropriate online notification form.

A copy of the licence must be displayed at the location of the removal works.

#### 8.1.7.2 Asbestos Removal Control Plan

The asbestos removalist must develop an Asbestos Removal Control Plan (ARCP), specific to the Site, before commencing any asbestos removal work. The ARCP shall be based on the removal requirements contained within this RAP. The purpose of the ARCP is to help ensure the removal is well planned and carried out in a safe manner and shall address all details relevant to the removal work.

The asbestos removalist shall consult with the primary works contractor to finalise the asbestos removal control plan and HINSW shall be provided with a final copy of this plan.

The presence or likelihood of other hazards associated with the asbestos removal work shall be assessed by the asbestos removalist.

### 8.1.8 Supervisory Personnel

The asbestos removalist must ensure the removal is adequately supervised and is carried out in a safe manner by ensuring that a nominated supervisor, recognised by SafeWork NSW, is onsite at all times when licensed work removal work is being carried out.

Appropriate qualifications generally include successful completion of SafeWork NSW recognised courses in asbestos work and asbestos supervision, appropriate experience in asbestos work, and the ability to demonstrate safe work methods.

The asbestos removalist shall ensure all supervisory personnel have a detailed knowledge of the precautions and procedures outlined in this technical specification.

The supervisory personnel shall ensure that the primary works contractor and HINSW are reliably and regularly informed of the progress of the removal work.

### 8.1.9 Competence

All persons involved in the removal of asbestos must be competent for the tasks allocated to them. The licence holder must ensure asbestos workers have had training in safe work methods in asbestos work.

### 8.1.10 Training and Information for Asbestos Removal Workers

Persons carrying out asbestos removal work shall be trained so they can carry out this work safely and without risk to their own health or the health of others.

This training must reflect the specific type of asbestos work to be undertaken.

Asbestos removalists shall keep a written record of all training provided to each of their asbestos removal workers and ensure these records are readily accessible.

Asbestos removalists shall also provide the following information to all of their asbestos removal workers and to all applicants for employment as an asbestos removal worker:

- The health risks associated with exposure to asbestos
- The need for, and details of, health surveillance, including medical examinations in accordance with the Guidelines for Health Surveillance [NOHSC: 7039 (1995)].

## 8.2 Approvals, Notifications and Licences

A summary of approvals, notifications and licenses for consideration is provided in Table 8–2.

Table 8–2: Summary of approvals, notifications, and licenses.

| Source | Requirement |
|---|---|
| State Environmental Planning | In Section 4.6 of SEPP (Resilience and Hazards) (2021) (incorporating former State Environmental Planning Policy No.55 – Remediation of Land, 1998) under the *Environmental Planning and Assessment Act 1979* indicates that remediation is categorised as: |

| Source | Requirement |
|---|---|
| Policy (SEPP) Resilience and Hazards (2021) | • Category 1 - requiring consent; or<br>• Category 2 - not requiring consent (and giving Council 30 days' notice).<br>SMEC was advised by Capital Insight Pty Ltd that the remedial works will require development approval through Bankstown City Council as Category 1 works as part of the Site is in a zone classified as a floodway. Section 4.8(e) of the SEPP (Resilience and Hazards) (2021) indicates that remediation work to be carried out in an area or zone to which listed classifications apply under an environmental planning instrument (in this case at least item 4.8(e)(vi) floodway) is Category 1 remediation work.<br>HINSW will be responsible for managing the planning and approval elements of the remediation and will need to confirm that the correct planning processes are undertaken. |
| CLM Act (1997) | In NSW, contaminated land is regulated under the Contaminated Land Management (CLM) Act (1997). It is understood that the Site has been notified to the NSW EPA within the Guidelines on the Duty to Report Contamination under the CLM Act (NSW EPA 2015).<br>Remediation works are to be undertaken in accordance with guidelines defined under the CLM Act (1997). |
| Protection of the Environment and Operations (POEO) (Waste) Regulation (2014) | The POEO Act (Section 48) requires a person to obtain a license from the NSW EPA if a 'premises-based' activity is to be carried out for the onsite or offsite treatment of contaminated soil, and applies as follows:<br>" *(1) This clause applies to contaminated soil treatment, meaning the onsite or off-site treatment of contaminated soil (including, in either case, incineration or storage of contaminated soil but excluding excavation for treatment at another site).*<br>*(2) The activity to which this clause applies is declared to be a scheduled activity if:*<br>*a. in any case, it has the capacity to treat more than 1,000 cubic metres per year of contaminated soil received from off site, or*<br>*b. where it treats contaminated soil originating exclusively on site, it has a capacity:*<br>*i. to incinerate more than 1,000 cubic metres per year of contaminated soil, or*<br>*ii. to treat (otherwise than by incineration) and store more than 30,000 cubic metres of contaminated soil, or*<br>*iii. to disturb more than an aggregate area of 3 hectares of contaminated soil.*"<br>The remediation works are not expected to trigger the above. |

## 8.3 Site set up and controls

A remediation contractor will set up the remediation areas with appropriate fencing and environmental controls. These are described in more detail in Section 10.

## 8.4 Demolition

The process of demolition of existing buildings is not within the scope of this RAP except for general overview and will be carried out under a separate approval.

Demolition is to be carried out in accordance with all relevant guidance in NSW and in such a way that does not alter existing known contamination areas and does not itself create new contamination. We understand that demolition will also include removal of all internal retaining walls and paved areas.

All hazardous building materials contained within all existing on-site structures are to be appropriately removed/managed by suitably licenced contractors and disposed offsite to a licenced facility.

Removal of all hazardous building materials (including asbestos) is to be carried out by a suitably licenced asbestos removalist under an asbestos control plan prepared by them.

A clearance inspection is to be carried out by a competent person following asbestos removal works and successful clearance obtained prior to demolition commencing.

## 8.5 Assessing Footprints of Former Structures

The location of building structure footprints is presented on Figure 3, Appendix A.

The following will be carried out across building footprints once buildings are removed:

- Observations are to be made to check the ground surface for visible indicators of contamination such as ACM, staining etc.
- Test pits will be excavated on a systematic grid across former building footprints approximately as shown in Figure 3, Appendix A. The approximate area of the Site occupied by building footprints is about 1ha. Sampling design guidelines (NSW EPA, 2022) recommend about 21 sample locations on an approximate 22m grid to assess an area of this size. Since the buildings are separated a slightly adjusted grid is proposed that slightly exceeds the sample density.

Table 8–3: Sampling of building footprints

| Building ID | Number of Test Pits |
|---|---|
| A | 4 |
| C | 6 |
| D | 6 |
| E | 5 |
| G | 3 |
| J | 4 |
| L | 4 |

- Sampling will be conducted from test pits which allows exposing a larger surface area of soil and allows better observations of ACM. Test pits will be excavated down to the base of fill and samples will be collected using the gravimetric sampling method for test pits/trenches as described in WA DoH (2021) (Table 8) for ACM in soil which involves collecting 10L of sample from each stratum for sieving, sampling and potential analysis. Samples for friable asbestos (FA) analysis will also be collected. The process described in Section 9.2.4 should be followed.
- Sampling from test pits for chemical analysis will be carried out at major changes in stratigraphy and any zones/layers with visual/olfactory evidence of contamination. Samples will be collected in duplicate and screened for volatile contaminants using a photoionisation detector (PID). Up to two samples from each test pit will be submitted to a NATA accredited laboratory and analysed for a suite of contaminants of potential concern (CoPC) as follows:
  - Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb and Zn)
  - Total recoverable hydrocarbons (TRH)
  - Benzene, toluene, ethylbenzene, xylene (BTEX)
  - Polycyclic aromatic hydrocarbons (PAH)
  - Organochlorine and organophosphate pesticides (OCP, OPP)
  - Polychlorinated biphenyls (PCB)
  - Asbestos (ACM and AF/FA).

The DQOs and DQIs that will be employed for this additional investigation are described in Section 9.1

The data from this assessment will be used to inform if additional remediation is required. If contaminated soil requiring removal is present then the general process described in Section 8.8 will be followed.

## 8.6 Transformer

Once the transformer is removed (in the demolition phase) and any paved areas in the vicinity also removed, the soils in the vicinity of the transformer will be assessed as follows:

- Observations are to be made to check the ground surface for visible indicators of contamination such as ACM, staining etc.
- Two test pits will be excavated to check the soils in the area where the transformer was located. Test pits will be excavated down to at least 1m and samples will be collected at the surface and 0.5m intervals for analysis.
- Sampling from test pits for chemical analysis will be carried out at major changes in stratigraphy and any zones/layers with visual/olfactory evidence of contamination. Samples will be collected in duplicate and screened for volatile contaminants using a photoionisation detector (PID). Up to two samples from each test pit will be submitted to a NATA accredited laboratory and analysed for a suite of contaminants of potential concern (CoPC) as follows:
  - Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb and Zn)
  - Total recoverable hydrocarbons (TRH)
  - Benzene, toluene, ethylbenzene, xylene (BTEX)
  - Polycyclic aromatic hydrocarbons (PAH)
  - Polychlorinated biphenyls (PCB)
  - Asbestos identification.

The DQOs and DQIs that will be employed for this additional investigation are described in Section 9.1

The data from this assessment will be used to inform if additional remediation is required. If contaminated soil requiring removal is present then the general process described in Section 8.8 will be followed.

## 8.7 Underground Storage Tank Removal

The suspected Underground Storage Tank (UST) in the flammable liquids store will be removed in accordance with the relevant legislation and guidelines including (but not limited to):

- The NSW Work Health and Safety Regulation 2017 (and as amended)
- SafeWork NSW publication 'Notifications for Schedule 11 Hazardous Chemicals and Abandoned Tanks – Guidance Material'
- *Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2019* and associated NSW EPA Guidelines and technical notes.
- Australian Standard AS4976-2008. The removal and disposal of underground petroleum storage tanks.

The works must be carried out by a suitably experienced SafeWork NSW licensed demolition contractor.

SafeWork NSW must be notified when a UPSS or underground tank has been abandoned using the prescribed SafeWork NSW form.

The following generally outlines what would be required:

- Use of ground penetrating radar or equivalent to locate the UST and associated pipework The tank liquid contents will be removed and disposed at an appropriately licenced waste facility.
- The UST will then be appropriately degassed, exhumed, transported and disposed offsite appropriately at a licensed facility. This includes all ancillary pipework. Records must be kept of how and where the UST was disposed. As per the requirements of the Underground Petroleum Storage Systems Regulation 2019 (NSW EPA 2020a), the tanks must be correctly disposed of in accordance with:
  - Australian Standard AS 1940–2017, The Storage and Handling of Flammable and Combustible Liquids

  - Australian Standard AS 4976–2008, The Removal and Disposal of Underground Petroleum Storage Tanks
  - SafeWork NSW safety alert WC01188, Potential risks when removing underground storage tanks.
- Soils excavated to facilitate removal of the UST will be stockpiled in a designated area to be assessed by the Environmental Representative. Soils should be segregated so that soils that appear impacted are kept separate from those inferred not to be impacted by contamination
- The Environmental Representative will collect validation samples from the walls and base of the excavation to assess the need for removal of contaminated soils as described in Section 9.2.

# 8.8 Excavation of Contaminated Soil

## 8.8.1 General

Excavation works must be carried out in a manner that reduces the potential for contamination of soils in other areas of the Site or cross-contamination of remediated areas. Excavation will be carried out in line with the following general items and more specifics for certain areas provided in sections below:

- Locate and disconnect all underground utilities entering the Site.
- Disconnection of all overhead utilities (if any) should be considered if they could interfere with the proposed works.
- Suitable machinery is to be selected for the works based on the Site constraints.
- Excavation works will avoid machinery tracking back into remediated areas (for example starting at one end and working toward another). If re-tracking into clean areas this is required, machinery must be decontaminated before entering clean areas.
- Excavation works to be carried out with care. Where practicable, non-toothed buckets will be used to clean up excavation bases and edges to limit the amount of soil requiring disposal.
- Contaminated soils will be temporarily stockpiled in a designated area adjacent the excavation with adequate controls and waste classification assessed then later loaded onto a truck for disposal to a designated licenced facility as per licence requirements (also refer to Section 8.10).
- Loading and transport of impacted soils will only occur over areas yet to be remediated to reduce the potential for cross contamination.
- An environmental representative (e.g. an environmental scientist) with suitable experience will be present on-site to guide the excavation of contaminated soils. The excavations will be extended to pre-determined limits or further if there is visual or olfactory evidence of impact.
- Validation sampling will be carried out to confirm that contaminated soil has been effectively removed. This is further discussed in Section 9.2.
- Adequate protection will be provided around the perimeter of the excavations that are left open such as temporary fencing or barriers, along with warning signs, in accordance with SafeWork NSW requirements where required.

## 8.8.2 Lead and Asbestos Impacted Soils

The inferred minimum extent of soils requiring excavation and removal are shown in Figure 4, Appendix A.

The following will be carried out to address impacted soils:

- Soils in the defined area are to be excavated and disposed offsite as impacted
- The excavation depth may be variable and will be guided by the previous laboratory field and laboratory data and through guidance by the Environmental Representative.
- If evidence of ACM is observed then the extent of excavation (lateral and/or vertical) is to be extended accordingly until no visual evidence of ACM is observed.

Table 8–4: Remediation Areas

| Remediation Area | Previous Sample location(s) with Exceedances | Approx. Dimensions | Target Depth |
|---|---|---|---|
| 1 | S23 | 15m x 15m | 0.5m (natural ground) |
| 2 | TP122 | 15m x 15m | 0.5m (natural ground) |
| 3 | TP111, TP112, TP113, TP115, TP119, S11, S13 | 35m x 70m | 0.5-1m (natural ground) |
| 4 | TP105 | 15m x 15m | 1.1m (natural ground) |

We note that the extent of remediation areas is assumed only. These are minimum extents and to be assessed through validation. Initial in-situ grid testing could be carried out to better inform the extent of remediation to avoid multiple rounds of excavation and validation.

## 8.9 Soil screening for Asbestos (Southern Area)

Site history information has shown that a number of former residential structures were present in the southern part of the Site and were subsequently demolished progressively for the car park and TAFE. Due to the extent and number of former building structures likely to have contained ACM, an area of the Site has been nominated for tilling of fill soils to check for further evidence of ACM and to reduce the potential for unexpected finds during construction. The approximate area requiring tilling is shown in Figure 4, Appendix A.

- Pavements and subgrade/road base gravel (where present) should be initially removed and segregated as these are newer materials. Care is to be taken not to penetrate into underlying materials, therefore some subgrade may remain.
- Following removal of pavements and upper part of the subgrade, the defined area is to be tilled down to the base of fill (typically 0.1-0.3m thick). A toothed excavator bucket (or similar) will be used to till the soil to assist check for fragments of ACM. Tilling refers to mechanically turning over surface soils to facilitate further observation of ACM fragments.
- Soils should be pre-wet to the tilling depth, dust control measures implemented, and personal and control monitoring undertaken during works
- Observations will be made by walking at 1m width transects with at least two passes made at 90 degrees
- If ACM fragments are observed, then an initial assessment will be made of their condition (good/poor), relative quantity and soil condition.
- If only single random fragments of ACM are identified, then these are to be picked up and bagged for disposal by the licenced asbestos removalist
- If the amount of ACM fragments is excessive, too small for picking or show evidence of being in poor condition (i.e. potentially friable – assessed if material is weathered and can be broken or crumbled by hand pressure), then the affected area is to be excavated as per the process described in Section 8.8.2 and validated visually and with sampling.

## 8.10 Waste Classification and Offsite Disposal

Soils assessed to require offsite disposal will be classified as per the NSW EPA (2014) Waste Classification Guidelines using the six-step assessment process. Where relevant, existing soil data will be used and supplemented with additional data collected directly from soil stockpiles. If soils were to classify as hazardous waste, then alternative disposal or treatment options may be considered.

A facility licenced to accept the materials will be identified by the Remediation Contractor, with the facility compliant with the requirements of the NSW EPA and POEO Act 1997.

## 8.11 Excavation Backfilling

If backfilling is required, no backfilling will be permitted until the receipt of validation results which have met adopted assessment criteria.

If imported material is required for backfilling, the materials will be assessed suitable for use on the Site from a contamination (and geotechnical perspective where relevant) prior to use. Validation of imported material is further discussed in Section 9.2.5. The excavations will be backfilled and compacted to a standard acceptable for the proposed development.

Copies of all imported materials dockets will be retained to confirm the source, type and quantities of materials for inclusion in the validation report.

## 8.12 Water in Excavations

If rainwater accumulates within excavations prior to the completion of remedial works, this will be disposed appropriately which may include:

- Disposal via a licensed liquid waste contractor to an appropriate facility
- Disposal on-site or to stormwater under relevant guidelines and approval from Bankstown City Council with any supporting testing and monitoring requirements
- Should the volume of water be excessive, consideration could also be given to disposal of the water into the sewerage system via a trade waste approval.

As described in Section 10.1.3 the contractor should prepare a Construction Environmental Management Plan (CEMP) which should also take into account that parts of the Site can be affected by flooding.

All waste tracking and disposal dockets will be kept for inclusion in the validation report.

## 8.13 Unexpected Finds

Unexpected finds of potential contamination may be identified by visual appearance and/or olfactory evidence during earthworks. An unexpected finds protocol has been developed and is included in Appendix F which will be followed in the event of an unexpected find.

Contamination issues already identified at the Site will not be regarded as unexpected finds and can be managed via the methods described in this RAP.

## 8.14 Contingency Plan

The proposed remediation option of excavation and offsite disposal has a high likelihood of meeting the remediation goals and it would be unusual for this method not to be successful.

## 8.15 Remediation Schedule

A remediation schedule will be developed by the Remediation Contractor based on their work methodology and HINSW requirements. Based on our experience we estimate that the onsite remediation work (following demolition) may be able to be completed in around 4-6 weeks. A validation report would take a further 3-4 weeks post receipt of final validation results.

# 9. Validation Plan

## 9.1 Data Quality Objectives

Data quality objectives (DQO) were developed for this project and are based on the requirements described in ASC NEPM (1999). Data quality Indicators (DQIs) are included in Appendix G.

### 9.1.1 Step 1 State the Problem

The primary objectives of the validation are to confirm that areas identified as requiring remediation have been successfully remediated.

The main considerations are:

- How many samples should be collected?
- What sample layout should be used to achieve the above objectives
- What analytes should be tested?

### 9.1.2 Step 2 Identify the Decisions/Goal of the Study

As per the remediation goal in Section 7.1.

### 9.1.3 Step 3 Identify Information Inputs

The following are the information inputs for the validation:

- A review of previous reports relating to the Site
- Field observations
- Laboratory results
- Applicable NSW EPA endorsed guidelines
- Data quality indicators and data validation

### 9.1.4 Step 4 Define the Study Boundaries

Horizontally, the study boundaries are defined by the extent of the remediation as shown on various figures within and appended to this report. Overall the study boundary is the boundary of the Site as shown in Figure 2, Appendix A.

Vertically, the study boundary is defined as the base of the soil contamination which could be variable.

### 9.1.5 Step 5 Develop the Analytical Approach (Decision Rule)

The decision rule for soil will be as follows:

- If contaminant concentrations for each sample are below the remediation criteria, then no further remediation will be required with respect to that contaminant or area
- Where sufficient data has been collected on a systematic pattern (and with the exception of asbestos), the 95% Upper Confidence Limit (UCL) of the arithmetic mean contaminant concentration should be below the health remediation criteria and the results must also meet the following:
  - The standard deviation must be less than 50% of the human health remediation criteria
  - No single value is to exceed 250% of the human health remediation criteria.

  This only applies for systematic sampling across a defined and large enough area.
- Exceedances outside the above will trigger the need for further assessment or remediation.

### 9.1.6 Step 6 Specify Performance or Acceptance Criteria

We have assumed the following to be true in the absence of contrary evidence (i.e. the null hypothesis).

- Contamination at the Site currently poses a potential risk to human and/or environmental receptors.

The possibility exists of making the following decision errors based on data obtained during this investigation:

- Type 1 error – deciding the above null hypothesis is false, when it is true.
- Type 2 error – deciding the above null hypothesis is true, when it is false.

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 an overly conservative assessment of risk and unnecessary expense of additional remediation.

The potential for decision errors will be minimised by completing a robust quality control program and by completing an investigation that has an appropriate sampling and analytical density for the purposes of the investigation. The QA/QC program would conclude if the data collected is useable, partially useable with some limitations, or unusable in forming conclusions to the assessment. The assessment will be carried out as per the DQIs (completeness, comparability, representativeness, precision and accuracy) in Appendix G.

## 9.2 Validation Plan

Validation works will be carried out with reference to relevant sections of the ASC NEPM (1999) and NSW EPA endorsed guidelines.

### 9.2.1 Validation of Excavations

Where soil is removed and an excavation created, visual assessment of excavations will initially be carried out to confirm their extent is consistent with this RAP and check for evidence of contamination in the walls and base (e.g. dark/unusual staining, ACM etc). If evidence of potential contamination is observed, then additional excavation will be carried out (guided by the environmental representative) or samples will be collected to confirm suspect zones/material.

When the excavations are visually assessed to be suitable for validation sampling, soil samples will be collected from the walls and base of the excavations.

Table 9–1: Validation Sampling Methodology

| Location | Validation | Analysis |
|---|---|---|
| Underground Storage Tank (and pipework) | Tank length < 4 m: one sample from beneath the centre of the tank, and one sample from each of the four walls<br>Tank length 4–10 m: one sample from beneath each end of the tank, and two samples from each of the four walls<br>Tank length > 10 m: one sample from beneath each end of the tank, and three samples from each of the four walls<br>For linear features such as pipework – 1 sample per 5 lineal metres of both walls and base.<br>(Based on NSW EPA, 2023) | TRH, BTEX, PAH, lead |
| Lead excavation (S23) | Walls – 1 sample per 5 lineal metres<br>Base – minimum 4 samples or 1 per 25m$^2$.<br>Samples in walls to target the suspected horizon of impact. | Lead |
| Excavations if soil impacted with asbestos is excavated | Excavation walls<br>Minimum 1 sample location per wall or 1 per 5 lineal metres for larger excavations, additional samples to be collected from suspect areas.<br>Two sample depths per wall location for excavation depths >0.5m- <1m.<br>Excavation base<br>1 every 25m$^2$<br>Gravimetric sampling as per Table 8 of WA DoH (2021) for ACM and 500ml samples for AF/FA for all samples. Refer to Section 9.2.4. | Analysis of ACM for asbestos including weight to allow concentrations to be calculated.<br>AF/FA (Asbestos quantification with reporting limit of <0.001%w/w) |
| Other excavations (if remediation deemed necessary) – excluding asbestos | Excavation walls<br>Minimum 1 sample location per wall or 1 per 5 lineal metres for larger excavations (for excavation depths less than or equal to 0.5m).<br>Excavation base<br>1 soil sample every 25m$^2$<br>Visually free of ACM. | The respective contaminants of concern that drive remediation of that location |
| Soil tilling for Asbestos (Southern Area) | Visual clearance of surface – two successive passes free of ACM.<br>Gravimetric sampling on 20m grid as per Table 8 of WA DoH (2021) Guidelines for ACM as a further line of evidence. Refer to Section 9.2.4. | Analysis of ACM for asbestos including weight to allow concentrations to be calculated.<br>AF/FA (Asbestos quantification with reporting limit of <0.001%w/w) |

Before clearance is granted for an asbestos work area to be re-entered, there must be a thorough clearance inspection, this should be clearly documented.

The clearance inspection must be conducted by a competent person who is independent from the person responsible for the removal work.

Following the final clearance inspection, a clearance certificate must be issued by a competent person, who is independent of the person responsible for the removal work.

### 9.2.2 Validation of Material for Offsite Disposal

A waste classification is to be obtained for material that is to be disposed of offsite at an appropriately licensed facility.

To allow for characterisation of the material, samples are to be collected from stockpiled excavated material in accordance with Table 9–2.

Table 9–2 Summary of sampling frequencies – offsite disposal of impacted excavated material.

| Stockpile Size | Sampling Frequency | Suite [1] |
|---|---|---|
| Up to 200m$^3$<br>NSW EPA (2022), Table 3 | • Minimum of 3 samples (up to 75m$^3$)<br>• 1 soil sample every 25m$^3$ (if greater than 75m$^3$). | Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn), TRH, BTEX, PAH, OCP, OPP, PCB, asbestos |
| >200m$^3$<br>NSW EPA (2022), Table 4 | • Minimum of 10 samples (up to 2,500m$^3$)<br>• 1 soil sample every 250m$^3$ (if greater than 2,500m$^3$). | |

Table Notes:

1. The default analytical schedule for stockpiled impacted material would include contaminants of potential concern relevant to the area where the material is sourced including but not be limited to those listed in the table.

### 9.2.3 Stockpiles for Re-use

If soil is excavated to facilitate removal of the UST and the soil does not appear contaminated. The soil stockpile can be assessed for on-site reuse through validation sampling as per the sample frequencies in

Table 9–2. Samples would be tested for TRH, BTEX, PAH and lead and be visually free of ACM. If asbestos could be suspected then gravimetric sampling and analysis for asbestos would also be carried out including AF/FA.

### 9.2.4 Asbestos Gravimetric Sampling

Soil sampling for bonded ACM will be undertaken using ‘gravimetric sampling’ techniques outlined within the NEPM and WA DoH (2021) Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia which will comprise the following:

- Collection of one 10L soil sample from each sampling location. In the case of test pits from each relevant stratum (or per 1 m depth for thicker units and additional samples from any suspect layers down to the base of fill)
- Weighing the weight of the 10L sample
- Field screening by sieving via 7mm aperture or spreading out on coloured plastic
- Collection of suspected ACM fragments retained on sieve and record condition
- Weighing of identified bonded ACM to calculate asbestos soil concentration (at the laboratory)
- Once the sample is double bagged, observations with respect to the samples condition to be made as follows:
  - 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.

- Where suspected ACM is retained in the sieve an additional 500ml sample is to be collected from representative test pit spoil and submitted to the laboratory for moisture content analysis. This can be used to estimate the dry weight of soil within the 10L sample.
- Collection of a 500ml sub sample of soil from the sample location (not from the sieved material)
- Submission of collected samples for laboratory analysis in accordance with WA DoH (2021)
- Recording presence/absence of ACM on field logs and sample summary registers
- The concentration of asbestos in soil for bonded ACM will be calculated using the principals of the formula:

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

The asbestos content of ACM can be assumed to be 15%, unless the material is of a different nature, in which case asbestos content estimation can be 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) can be calculated from the field wet weight and the soil moisture content.

### 9.2.5 Validation of imported fill

Should fill be required for the remedial works, then the material will comply with the following:

- The material must be permitted to be transported to Site within the provisions of the POEO Act. This requires the material to (at a minimum):
  - Meet the definition of Virgin Excavated Natural Material (VENM); or
  - Meet the requirements of a suitable Resource Recovery Order and Exemption (e.g. The Excavated Natural Material Order and Exemption); or
  - Meet an EPA approved site-specific Resource Recovery Order and Exemption.
- The material must be suitable for the proposed development and land use.

The Environmental Representative will review the source and type of material to be imported to Site and confirm there is adequate evidence of the suitability of the material for use on the Site with respect to the above. The need for additional verification sampling will be based on this review and to be assessed by the Environmental Representative will review the source and type of material to be imported to Site and confirm there is adequate evidence at the time. At a minimum, the Environmental Representative will review the source and type of material to be imported to Site and confirm there is adequate evidence will observe the material delivery to the Site to check that it is consistent with the material source and documentation.

Documentation with adequate validation of the imported fill will be included in the validation report including delivery dockets.

If the Environmental Representative considers verification sampling is required additional verification sampling would be carried out in accordance with

Table 9–2.

## 9.3 Validation report

At the completion of the remedial works, a validation report will be prepared in accordance with relevant sections of ASC NEPM (1999) and NSW EPA (2020) guidelines. The report will:

- Describe the remedial works undertaken, the validation carried out and the final condition of the Site
- Confirm that the Site complies with the set remediation criteria
- Document evidence to confirm that waste management has been carried out in accordance with relevant regulatory requirements.
- Include information confirming (as relevant) that EPA and other regulatory authorities' licence conditions and approvals have been met.

To comply with UPSS Regulations, the report should also be provided to the relevant local authority to inform and satisfy reporting requirements for removal of the UST and to be submitted within 60 days of decommissioning or removal, or completion of remediation. SafeWork NSW is also to be notified using the online notification form.

## 9.4 LTEMP

Upon completion of validation, an LTEMP will be prepared in accordance with:

- NSW EPA (2020) Consultants reporting on contaminated land, Contaminated land guidelines
- NSW EPA (2022) Preparing Environmental Management Plans for Contaminated Land.

The LTEMP would be implemented in areas where contaminated materials are retained onsite. The LTEMP would include detailed specific procedures for:

- Inspection and maintenance of the Site capping layer – Including site plan with details of location/extent of the capping layer installed at the Site
- Any ground engaging activities whereby depths of penetration could extend close to or below the caping layer (trenching, utilities installations, potholing, etc.). This would include details of reinstatement and validation of the capping layer integrity
- The Site Owner (Minister for Education and Early Learning) should record the existence of the LTEMP onto their property information systems to aid enforcement.

# 10. Site management requirements

## 10.1 Site management

### 10.1.1 General

The appointed remediation contractor will prepare relevant documentation to manage environmental issues during the works, such as in a site-specific Construction Environmental Management Plan (CEMP) or similar as required HINSW. Any other requirements imposed by Council to comply with development consent conditions will also be addressed and take precedence over general measures described in subsequent sections. The CEMP will provide measures to reduce the potential for adverse impacts to health or the environment from items including (but not limited to):

- Site security and signage
- Stormwater, erosion and sediment
- Soil management and material tracking
- Noise
- Dust
- Odour
- Traffic
- Biodiversity and aboriginal heritage
- Underground storage tank removal
- Asbestos removal.

The hazards associated with unacceptable exposure to potential contamination during works will be managed as follows:

- Work to be performed and overseen by a suitably qualified Remediation Contractor
- Establishing environmental controls
- Management of soils including excavation and offsite disposal
- Implementing environmental monitoring during the course of the development.

The licenced asbestos removalist will prepare an asbestos removal plan.

The following sections provide a guide for the remediation contractor to develop the CEMP. The remediation contractor will be responsible for administering Site controls and monitoring as per the approved CEMP. The following is guidance only.

### 10.1.2 Site Security Signage

The remediation contractor will provide Site security through fencing or other means to prevent unauthorised access to the Site and equipment.

Relevant signage in accordance with SafeWork NSW and Australian Standards will be provided to the Site. Contact information will be displayed on-site as per Council requirements.

### 10.1.3 Stormwater, Erosion and Sediment Control

The remedial excavation works are estimated to take about four to six weeks. Where practicable, works should be programmed during favourable weather to avoid potential issues with runoff and flooding.

Erosion and sediment controls are to be established at the Site prior to commencement of any Site disturbance. These may include silt fencing or other approved measures. These should include preventive measures in nearby street stormwater drains. Adopted measures should also prevent stormwater entering adjacent properties. Controls will be based on Landcom's, Managing Urban Stormwater – Soils and Construction, 2004.

Adequate monitoring will be carried out of sediment and erosion control measures and documented in the CEMP. The CEMP should also take into account that parts of the Site can be affected by flooding.

### 10.1.4 Asbestos removal controls

The following controls will be adopted at a minimum in relation to asbestos removal works as they relate to Site management. Additional controls are described for health and safety in Section 11.

- The Remediation Contractor/licenced asbestos removalist is to set up appropriate exclusion zones across the work area to define asbestos removal areas. Where practicable 10m exclusion zones should be set up and clearly demarcated with appropriate physical barriers and warning signage.
- Care shall be taken in selecting tools for asbestos removal tasks. In addition to having to be suitable for these tasks, all tools shall prevent or minimise the generation and dispersion of airborne asbestos fibres as much as possible.
- An equipment decontamination area is to be set up to wash down equipment entering asbestos impacted areas. This may include excavator (bucket and tracks) and truck wheels (if needed). The form of the decontamination method is to be described in the Asbestos Control Plan prepared by the licenced removalist, but may include a small excavated area covered with geofabric and bunding. At works completion the geofabric is to be disposed with other asbestos waste.
- No equipment is to be permitted to leave the Site without adequate decontamination.
- Dust suppression will be carried out as discussed in Section 10.1.7.
- Airborne fibre monitoring will be carried out as per Section 10.1.7.2.
- Trucks used for transport of asbestos waste are to be leak proof design. Where this is not provided, trucks are to be lined with 0.2mm plastic sheeting.
- Loading of soils onto trucks is to be carried out carefully and supervised so that soil spillage does not occur. Any spillage is to be cleaned up immediately. All loading is to be carried out within the exclusion zone and within the Site boundary
- Trucks used for asbestos disposal are to have automatic load covers so that the driver is not potentially exposed to impacted soils.

### 10.1.5 Soil management and material tracking

The following will be carried out:

- Vehicle access to the Sites will be stabilised so that access can be gained on/offsite and reduce sediment tracking onto roads.
- Excavated contaminated soils should be loaded directly into trucks for offsite disposal.
- All waste/contaminated soil will be loaded into leak-proof trucks comprising a canopy cover.
- Adequate measures will be installed at the Site entry to remove soil from truck wheels before they leave the Site. The form of management may need to be flexible due to the small size of the Site and likely short duration of remedial works.

- All material leaving the Site will be tracked and documented. Asbestos waste is to be tracked and disposed in accordance with the NSW EPA (2015) Asbestos and Waste Tyres Guidelines which provides guidelines for the consignor, transporter and occupier of premises receiving waste.
- A register of all loads leaving the Site, including quantities, number of trucks, truck registrations, and days and times of contaminated soil loading and transfer to the landfill will be kept.
- Waste disposal will be compliant with The Protection of the Environment Operations (Waste) Regulation 2014 (the Waste Regulation). The Waste Regulation makes it an offence to transport waste generated in NSW by motor vehicle for disposal more than 150 kilometres from the place of generation, unless the waste is transported to one of the two nearest lawful disposal facilities to the place of generation (even if that facility is located more than 150 kilometres from its place of generation).
- Temporary stockpiling should be avoided to prevent double handling and increase risk of generating dust.
- Stockpiles if created will require additional sediment and erosions controls and be limited in height no greater than surrounding neighbouring fences or as required by Council.
- Stockpiling or spillage of spoil onto areas not requiring remediation should be avoided. If this occurs it should be cleaned up as quickly as possible. The environmental representative will assess the need to validate the surface of un-remediated areas based on the manner of the remedial works.

### 10.1.6 Noise

The Site is located close to residential areas and is generally bounded by roads with residential properties located beyond. All remedial works will be carried out in compliance with Council regulations on noise and conditions of approval, including any restrictions on working days/hours.

### 10.1.7 Dust

#### 10.1.7.1 General

Dust will be controlled during the remedial works so that there is no observable dust movement offsite and to prevent airborne fibres. The Remediation Contractor is to design suitable measures for dust controls, the following can be considered:

- High density weave shade cloth around the remediation work zone if say within 20m of the Site boundary.
- Visual monitoring and dust suppression such as light water sprays can be used to supress dust during excavation and loading. Dust is a potential transport mechanism for contaminated material to move from Site and impact adjacent residential receptors, therefore it is important that adequate controls are in place. Water sprays should be controlled so that excessive water is not applied where soil becomes saturated and create a risk of runoff.
- If a soil stockpile of potentially contaminated soil is created that cannot be moved offsite for a particular reason by the end of the workday, then stockpiles will be placed onto polyethylene sheeting (2-ply HDPE) and also covered with similar sheeting, tapped and weighted down.
- In the event dust is generated, works will stop and dust suppression techniques reviewed, with alternative dust suppression techniques applied.
- Airborne fibre monitoring will be carried out as described in Section 10.1.7.2 until a clearance can be issued.

#### 10.1.7.2 Airborne fibre monitoring

Airborne fibre monitoring will be carried out during works involving disturbance of soils with asbestos.

Air monitoring devices will be placed at a minimum of four locations on the boundaries of the designated work areas. The sample collection and analysis will be conducted in accordance with the National Occupational Health and Safety Commission (NOHSC) “Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust [NOHSC: 3003 (2005)].

The analysis is to be performed by a NATA accredited laboratory. The concentration of fibres at the site boundaries is to be <0.01fibres/mL of air. Concentrations of asbestos fibres shall be dealt with as follows:

- <0.01 fibres/mL. Action: Continue with control measures
- Between 0.01 fibres/mL and 0.02 fibres/mL. Action: Review control measures
- Greater than or equal to 0.02 fibres/mL. Action: Stop work until the cause of the elevated concentrations is remedied. For work classified as Class A work, the licenced asbestos removalist must order removal work to stop and notify SafeWork NSW immediately if respirable asbestos fibre levels exceeds 0.02 fibres/ml in the removal area.

These results will be made available to all onsite employees.

### 10.1.8 Odour

As volatile contaminants were not previously recorded at elevated concentrations, odour is not likely to be an issue for the Site. No unusual odours were noted during the recent Site investigations. Volatiles may be present during removal of the UST. If odours are unexpectedly encountered then contingency measures such as covering soil or use of odour suppressants could be considered.

### 10.1.9 Traffic

Adequate traffic management controls will need to be employed for the works due to the movements of plant and trucks within the property and likely movement/impacts on adjacent roads. A traffic management plan may be required by Council.

### 10.1.10 Community consultation/Stakeholder engagement

Neighbouring residents are likely to be informed of the intended remedial works as part of the development application process. There may also be requirements for specific consultation as part of the development consent conditions. At a minimum these conditions should be complied with.

HINSW may also consider the need for additional consultation due to the proximity of the adjacent residences and development to avoid potential complaints or unnecessary work stoppages from uninformed residents or nearby construction work.

Guidance on community engagement and risk communication remediation advice can be found in:

- National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1). Schedule B8, Guideline on Community Engagement and Risk Communication
- Institute for Sustainable Futures, Step-By-Step Guide for Creating Stakeholder Engagement Plans for Contaminated Sites In NSW.

### 10.1.11 Working hours

Working hours for on-site remedial works will be completed in accordance with Council requirements and as stated in the final development consent conditions.

# 11. Work health and safety

## 11.1 Work health and safety requirements

Occupational health and safety of the Site during the remedial works will be the responsibility of the appointed principal contractor (which could be the remediation contractor). Prior to commencement of remediation works the remediation contractor will develop a Site health and safety plan. This plan will include Safe Work Method Statements (SWMS) to detail activities to be conducted, associated hazards, an assessment of risk and measures to control the risk.

Work associated with the remediation of the Site will conform, at a minimum (but not limited to), to the requirements of:

- Work Health and Safety Act 2011
- Work Health and Safety Regulation 2017
- Other relevant SafeWork NSW regulations and codes, such as (but not limited to):
  - SafeWork NSW (2022) Code of Practice: How to Manage and Control Asbestos in the Workplace
  - SafeWork NSW (2022) Code of Practice: How to Safely Remove Asbestos.
  - SafeWork NSW Notifications for Schedule 11 Hazardous Chemicals and Abandoned Tanks – Guidance Material

Typically, the safety plan will contain but not be limited to addressing the following issues:

- Regulatory requirements
- Hazard assessment and control
- Chemical/contaminant hazard control
- Hazardous atmospheres
- Sample and chemical handling procedures
- Personal protective equipment
- Monitoring requirements
- Work zones
- Decontamination procedures
- Training and responsibilities
- Evacuation and emergency response plans
- Contingency plans
- Incident management and reporting.

The plan will be periodically reviewed and updated based on changing activities and Site conditions.

Any subcontractors will prepare their own Site-specific SWMS for their activities with consideration of the overall Site conditions and hazards.

Visitors to the Site will be required to be inducted to the relevant sections of the plan and sign on.

## 11.2 Hazard assessment

The safety plan and SWMS will identify health and safety hazards and appropriate controls.

In relation to the chemical contamination that is being remediated, the relevant contaminants that need to be considered in the safety plan are:

- Lead
- Petroleum hydrocarbons (near UST)
- Asbestos.

## 11.3 Personal protective equipment

Workers should avoid coming into contact with contaminated soils, but where this is not practical, wearing of appropriate personal protective equipment (PPE) will be required. The level of PPE required to control risk of contact with contaminated soil will depend on Site conditions, but at a minimum should include the following over and above other PPE:

- P3 class respirator or higher
- Disposable coveralls
- Disposable nitrile gloves
- Safety glasses/goggles
- Lace-less work boots or disposable boot covers.

The above will apply within the remediation exclusion zone.

### 11.3.1 Respiratory protective equipment

The selection use and maintenance of respirators shall be in accordance with AS/NZS1715-2009 Selection Use and Maintenance of Respiratory Protective Devices.

Respirators shall be issued to individuals for their exclusive use. A system of regular cleaning, inspection and maintenance shall be provided for respirators on extended personal issue, and records of all respirators issue and uses shall be established and maintained.

Workers shall receive instruction and training in the correct method of using their respirators, the importance of a correct facial fit and the requirements of the system of regular cleaning, inspection and maintenance.

All workers shall undergo a ‘fit test’ in order to determine their suitability to wear negative pressure respirators. Persons with beards or other facial hair or stubble will not be protected properly by ‘negative pressure’ respirators that require a facial seal, so all asbestos removal workers using respirators that require a facial seal shall be clean-shaven.

All filters used while working with asbestos shall be disposed of as asbestos waste.

### 11.3.2 Protective clothing and footwear

Protective clothing shall be provided and worn at all times during all work in the asbestos work area prior to the final clearance inspection.

Protective clothing shall be made from materials which provide adequate protection against fibre penetration. Coveralls shall not have external pockets or Velcro fastenings because these features are easily contaminated and difficult to decontaminate.

Disposable coveralls are preferred. They shall never be reused and must be disposed of as asbestos waste.

The use of protective gloves shall be determined by a risk assessment. If significant quantities of asbestos fibres may be present, disposable gloves shall be worn. Protective gloves can be unsuitable, however, if dexterity is required. All gloves used for asbestos removal work must be disposed of as asbestos waste.

Regardless of whether gloves are used, asbestos removal workers must clean their hands and fingernails thoroughly after work.

Appropriate safety footwear (i.e. steel-capped rubber-soled work shoes or gumboots) shall be provided for all asbestos removal workers. This footwear should be lace-less, because laces and eyelets are easily contaminated. When not in use, the safety footwear shall be stored upside down to minimise asbestos contamination inside the footwear. Storage facilities shall be provided to allow this.

Safety footwear must be decontaminated at the end of the job and upon leaving the work area, or sealed in double bags for use on the next asbestos removal Site (but not for any other type of work). Work boots that cannot be effectively decontaminated must be disposed of as asbestos waste.

### 11.3.3 Decontamination

Decontamination must occur within the remediation work area, whereby all tools and equipment and personal are decontaminated. Asbestos waste bins shall be provided within the asbestos removal area.
The contractor will allow the following (or similar) for personal decontamination:

- A designated unit to remove spent PPE
- Lined bin or polyethylene bags for PPE disposal
- Water, containers and brush to wash boots and equipment
- All contaminated materials, including plastic sheeting and PPE etc, must be disposed of as asbestos waste.

### 11.3.4 Other Hazards

Other common earthworks hazards that require consideration and controls include (but not limited to):

- Underground/overhead utilities.
- Working around plant and equipment.
- Open excavations (including water).
- Heat/cold stress.
- Physical hazards.

Other key elements to be covered in SWMS are:

- Consultation and training is to be provided to all workers who may be involved in works that could disturb or be exposed to asbestos.
- All workers on-site should have adequate asbestos awareness training.
- Daily toolbox meetings are to be carried out including induction into the unexpected finds procedure.
- No smoking or eating within contaminated area.
- Operators of earthworks plant are to have closed cabins and work within those closed cabins with air conditioning.

# 12. Conclusions

The remediation options analysis and discussions with HINSW identified the following two preferred remedial options.

1. Onsite encapsulation of asbestos impacted soils within a containment cell and development and implantation of associated Long-term Environmental Management Plan, and
2. Excavation and offsite disposal of non-asbestos impacted contaminated materials.

SMEC considers the Site can be made suitable for the proposed activity subject to implementation of the RAP and then the LTEMP be prepared and applied.

Subject to successful validation, restrictions would only apply to future ground engaging activities whereby depths of penetration could extend close to or below the capping layer (within the Containment Area). This assumes remediation is undertaken as per this report, and the contamination sources and extents are as per the current CSM.

# 13. References


- AS 5370:2024, Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD)
- AS/NZS1715-2009 Selection Use and Maintenance of Respiratory Protective Devices.
- AS 1940–2017, The Storage and Handling of Flammable and Combustible Liquids
- AS 4976–2008, The Removal and Disposal of Underground Petroleum Storage Tanks
- Contaminated Land Management (CLM) Act (1997), CLM Act 1997 No 140, dated 21 November 2024.
- CRC Care (2013) Petroleum hydrocarbon vapour intrusion assessment: Australian guidance, Technical Report no. 23, CRC for contamination Assessment and Remediation of the Environment, dated July 2013.
- CRC Care (2019) National Remediation Framework, dated August 2019.
- Douglas Partners (2022) - Preliminary Site Investigation (Contamination) - 490 Chapel Rd & 347A Hume Highway, Bankstown (Prepared for Bankstown City Council)
- Environmental Planning and Assessment Act (1979).
- Environmental Planning and Assessment Regulation (2021).
- Friebel and Nadebaum (2011) Health screening levels for petroleum hydrocarbons in soil and groundwater, part 1: Technical development document, Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE Pty Ltd) Technical Report Series No. 10
- International Erosion Control Association (IECA) (2008), Best Practice Erosion and Sedimentation Control, June 2008.
- JBS&G (2021a) - Due Diligence Contamination Assessment, Site 16A Bankstown TAFE
- JBS&G (2021b) - DRAFT – Memorandum – Intrusive Due Diligence Works Progress Update, Site 16 Bankstown TAFE
- Landcom (2004), Managing Urban Stormwater – Soils and construction, Volume 1 (also referred to as the “Bluebook”), 4th Edition, March 2004.
- National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended in 2013, National Environment Protection Council
- National Environment Protection Council (2013) Assessment of Site Contamination NEPM Toolbox
- NEPC (2013) Assessment of Site Contamination NEPM Toolbox, National Environment Protection Council (NEPC).
- National Occupational Health and Safety Commission (1995) Guidelines for Health Surveillance [NOHSC: 7039 (1995 )].
- NEPM (2013) National Environment Protection (Assessment of Contamination) Measure 1999.
- NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste
- NSW EPA (2015) Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997
- NSW EPA (2020) Consultants Reporting on Contaminated Land, Contaminated Land Guidelines, April 2020.
- NSW EPA (2020a) Underground Petroleum Storage Systems - Guidelines for implementing the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2019
- NSW EPA (2022) Contaminated Land Guidelines: Sampling Design part 1 - application.
- NSW EPA (2023) Contamination assessment of service station sites – Minimum Requirements
- Protection of the Environment Operations Act (POEO) (Waste) Regulation 2014.

- Protection of the Environment Operations Act (POEO) 1997, POEO Act 1997 No 156, dated 9 August 2024.
- Safe Work Australia (2011): How to Safely Remove Asbestos Code of Practice
- SafeWork NSW (2022) Code of Practice: How to Manage and Control Asbestos in the Workplace.
- SafeWork NSW (2022) Code of Practice: How to Safely Remove Asbestos.
- SafeWork NSW safety alert WC01188, Potential risks when removing underground storage tanks.
- SEPP (2021a) State Environmental Planning Policy (Resilience and Hazards), dated 21 November 2022.
- SMEC (2025) Detailed Site Investigation, Bankstown New Hospital (Ref: 33013640, dated 21 March 2025)
- State Environmental Planning Policy (Resilience and Hazards), dated 21 November 2022.
- Western Australia, Department of Health (WA DoH) (2021) Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia.

Appendix A

# Figures

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Metres
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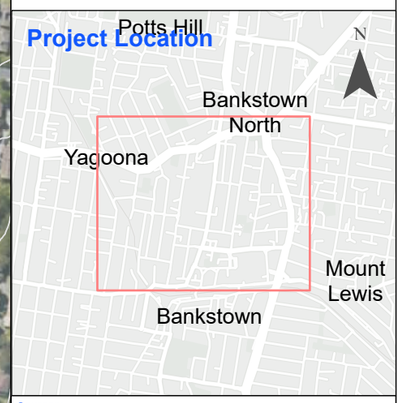
**LEGEND**

- Site Boundary
- Contours - 5m

**Project Location**

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3. Light Gray Base: Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
Australia latest: , Aerometrex Pty Ltd

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| | |
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| **Figure No:** | 1 |
| **Figure Name:** | Site Locality |
| **Version:** | 1 |
| **Date:** | 3/02/2025 |
| **Created by:** | LL16284 |
| **Page Size:** | A3 |

Exceedances

- Asbestos
- Asbestos (bonded) observed (<HIL)
- Lead
- Arsenic
- Exceeds ecological criteria

TP101_0.1-0.5m
- (Arsenic 180mg/kg >EIL only))

TP105/0.1-0.2m
- AF/FA 0.006% (>HIL)

TP111/0.4-0.5m
- ACM 0.019% (>HIL)

SS11 (JBS&G)
- Bonded ACM 0.1148% (>HIL)

TP112/0.3-0.4m
- Bonded ACM 0.027% (>HIL)
- AF/FA 0.002% (>HIL)

TP111/0.4-0.5m
- (Benzo(a)pyrene 0.9mg/kg >EIL only)

Underground Storage Tank

TP122/0.1-0.5m
- ACM 0.014% (>HIL)

S23/0.4m (JBS&G)
- Lead 1,500mg/kg (>HIL)
- (Zinc 670mg/kg >EIL only)
- AF/FA 0.0008% (<HIL)

S23/0.4m (JBS&G)
- Lead 1,500mg/kg (>HIL)
- (Zinc 670mg/kg >EIL only)
- AF/FA 0.0008% (<HIL)

TP132/0.2-0.3m
- Lead 770mg/kg (>HIL)

TP108 BH101 TP101 TP102 S01 S02 S03 S04 TP107 S05 TP104 TP103 S06 TP105 TP106 S07 S09 S08 TP109 TP110 TP111 S10 S12 S11 TP112 TP116 TP113 TP114 TP115 S14 S13 TP117 TP118 TP119 S15 S17 BH102 TP120 S16 TP121 TP122 TP123 S18 S19 TP124 TP126 TP125 TP127 S21 TP128 S20 TP129 TP130 S23 TP131 TP132 BH103 S22

Cairds Avenue
Meredith Street
Price Lane
Heath Street
Chapel Road
Jacobs Street
Carmen Street
Raw Avenue
French Avenue
Kitchener Parade

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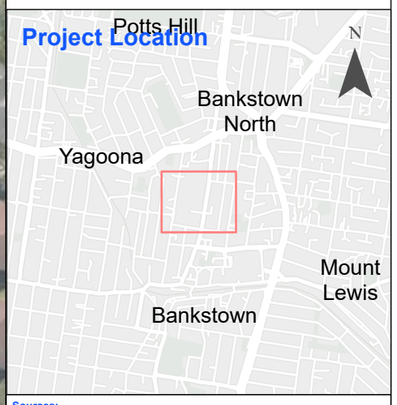
LEGEND
- Site Boundary
- Monitoring Wells
- Test Pits
- Large Diameter Boreholes
- JBS&G Sample location (approx.)

Project Location

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| Project No: | 30013640 |
| Figure No: | 2 |
| Figure Name: | Sample Locations and Summary Data |
| Version: | 3 |
| Date: | 15/04/2025 |
| Created by: | MF |
| Page Size: | A3 |

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## LEGEND

- Site Boundary
- Existing Building Footprints
- Proposed Test pit location

**Project Location**

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| | |
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| **Figure Name:** | Building Footprints |
| **Version:** | 1 |
| **Date:** | 15/04/2025 |
| **Created by:** | NC17428 |
| **Page Size:** | A3 |

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**LEGEND**

- Site Boundary
- Monitoring Wells
- Test Pits
- Large Diameter Boreholes
- JBS&G Sample location (approx.)
- Remediation Area
- Fill tilling area

**Project Location**

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**Note: Extent of remediation areas is assumed only. These are minimum extents and to be assessed through validation. Initial in-situ grid testing could be carried out to better inform the extent of remediation to avoid multiple rounds of excavation and validation.**

| | |
|---|---|
| **Project No:** | 30013640 |
| **Figure No:** | 4 |
| **Figure Name:** | Remediation Areas |
| **Version:** | 3 |
| **Date:** | 15/04/2025 |
| **Created by:** | MF |
| **Page Size:** | A3 |

Appendix B

# Copy of previous logs

# 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 insitu 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: assessment of material boundaries in areas of partial sampling and recovery,

a. location of areas of core loss,
b. description and classification of material,
c. estimate of field strength, and
d. identification of drilling induced fractures.

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

## Drilling Method

| Code | Description |
|---|---|
| AD/T | Auger drilling with TC-bit |
| AD/V | Auger drilling V-bit |
| AS | Auger screwing |
| AT | Air track |
| CA | Casing advancer |
| CC | Concrete core |
| CT | Cable tool rig |
| DB | Wash bore drag bit |
| HA | Hand auger |
| HAND | Hand methods |
| HSA | Hollow flight auger |
| HMLC | Diamond core 64mm diameter |
| HQ | Wireline, 64mm core diameter |
| HQ3 | Wireline, triple tube, 61mm core diameter |
| NDD | Non destructive drilling |
| NMLC | Diamond core 52mm diameter |
| NQ | Wireline, 48mm core diameter |
| NQ3 | Wireline, triple tube, 45mm core diameter |
| PT | Continuous push tube |
| PQ | Wireline, 85mm core diameter |
| PQ3 | Wireline, triple tube, 83mm core diameter |
| RAB | Rotary air blast |
| RC | Reverse circulation |
| RD | Rotary blade or drag bit |
| RR | Rock roller |
| RT | Rotary tricone bit |
| S | Sonic drilling |
| SFA | Solid flight auger |
| TBX | Tube-X |
| VC | Vibro-core drilling |
| VE | Vaccume Excavation |
| WB | Wash bore drilling |

## Casing

| Code | Outside Diameter |
|---|---|
| AW | 57.1 mm |
| BW | 73 mm |
| HW / HWT | 114.3 mm |
| NW / NWT | 89.9 mm |
| PW / PWT | 139.7 mm |
| PVC90 | 90 mm |
| PVC150 | 150 mm |

## 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.

## Borehole angle and Azimuth

Angle from horizontal where a positive angle is above horizontal, and a negative angle is below horizontal. Azimuth is to magnetic north and in degrees.

## Defect Orientation

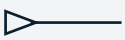
For vertical boreholes, the dip of the defect is measured relative to core normal (unless specified otherwise). The dip direction can not be ascertained for vertical holes. For inclined boreholes, the Alpha angle is recorded relative to the core axis and where core orientation has been undertaken (with appropriate reference line), a Beta angle can be measured clockwise from the reference line looking down the core axis in the direction of drilling. The alpha and beta angles can be converted to dip and dip direction if the position of the reference line relative the hole is known, and the borehole angle and azimuth is known.

## Excavation Method

| | |
|---|---|
| **N** | Natural exposure |
| **X** | Existing excavation |
| **BH** | Tractor mounted backhoe bucket |
| **E** | 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 inflow partial |
| | Water outflow |
| | Water outflow partial |
| | Water level: during drilling or immediately after completion of drilling |

## Groundwater

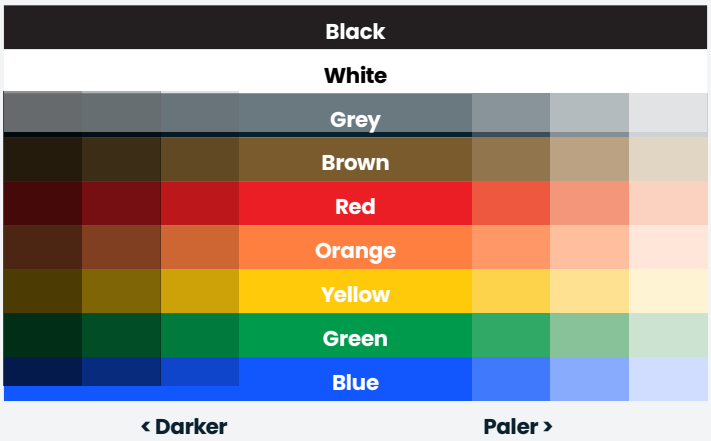
| Symbol | Description |
|---|---|
| | Groundwater level with date observed prior to introduction of fluids or after standpipe construction |
| Not observed | The observation of groundwater, whether present or not, was not possible due to drilling water, surface seepage or cave in of the borehole / test 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. |

## Core Run

Core lifts are identified by a line and depth. The run number may be shown and total core recovery is shown as a percentage in brackets followed by the RQD percentage unless otherwise indicated.

## 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).




## Description of Soil

i. Soil name
ii. Plasticity or particle size of soil
iii. Colour
iv. Secondary soil components names & estimated proportions including their plasticity / particle characteristics, colour
v. Minor soil components name, estimated proportions, including their plasticity / particle characteristics, colour
vi. Other minor soil components
vii. Structure of soil including zoning, defects & cementing
viii. Additional observations including odour & staining

The origin of soil, soil classification, consistency / density & soil moisture condition are presented separately from the material description.

## 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) |

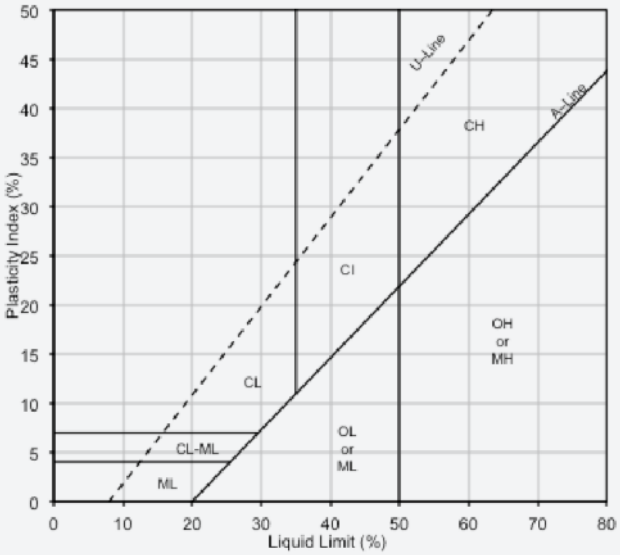
## Descriptive Terms for Secondary and Minor Components

| 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 |
| >35 to ≤ 50 | Medium plasticity |
| > 50 | High plasticity |

## 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 humans |
| **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 | | |

## Description of Rock

i. Rock name
ii. Grain size and mineralogy
iii. Colour
iv. Fabric, bedding and texture
v. Features, inclusions, minor components, moisture condition and durability
vi. Rock mass properties - discontinuities and structure of rock
vii. Additional observations including odour & staining

The origin of rock, interpreted stratigraphic unit, strength weathering and alteration are presented separately from the material description.

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 mm |
| Medium | Mainly 0.2 mm to 0.6 mm |
| Fine | Mainly 0.06 mm (just visible) |

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) |

## 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 |
|---|---|---|---|
| Soil Strength (SS) | <0.6 | <0.03 | Soil strength materials, formerly classified as Extremely Low Strength rock, as to be assigned a soil strength based on the soil characteristics: granular or cohesive. Where strength ranges between soil and Very Low Strength rock, Soil Strength may be used for transitional strengths. |
| 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. Material with strength less than Very Low are described using soil characteristics including consistency / density as detailed on page 4.

## Visual Log

A detailed core photo or 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 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)*<br>Distinctly Altered (DA) | 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) | | 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 | | P | 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 | | J | 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 | | S | 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 | EW | 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.

## Discontinuity Planarity

| Code | Description |
|---|---|
| CU | Curved – A defect with a gradual change in orientation |
| IR | Irregular – A defect with many sharp changes in orientation |
| PR | 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 |

## Discontinuity Roughness

| Code | Description |
|---|---|
| VR | Very rough – many large surface irregularities, amplitude generally more than 1mm |
| RF | 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 rocs along the plane |

## 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. |
| Fold Axis | FX | The orientation of a line representing the location of greatest curvature of a fold |
| Schistosity | SH | A layered arrangement of minerals to each other |
| Foliation | FL | 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 | SI | 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 |

**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 | Moderately Widely Spaced |
| 60 - 200 | Closely Spaced |
| 20 - 60 | Very Closely Spaced |
| <20 | Extremely Closely Spaced |

## Discontinuity Aperture Openness

| Code | Description |
|---|---|
| tight | Nil, Closed |
| very narrow | >0-2 mm, Closed |
| narrow | 2-6 mm, Closed |
| moderately narrow | 6-20 mm, Gapped |
| moderately wide | 20-60 mm, Open |
| wide | 60-200 mm, Open |
| very wide | >200 mm, Open |

## Infill Material

| Code | Name | Code | Name |
|---|---|---|---|
| AM | Azurite / Malachite | Gp | Gypsum |
| Ap | Apatite | He | Hematite |
| Ca | Calcite | Is | Ironstone |
| Co | Coal | Mn | Manganese |
| Ch | Chlorite | Pl | Pyrolusite |
| Cp | Chalcopyrite | Py | Pyrite |
| Cy | Chalcedony | Sd | Siderite |
| Ep | Epidote | Se | Serpentine minerals |
| Fe | Limonite/Goethite | Sp | Sphalerite |
| FeO | Iron oxide | Um | Unidentified mineral |
| Fs | Feldspar (K) | Qz | Quartz |
| FsC | Feldspar (Ca/Na) | X | Carbonaceous |
| Ga | Galena | 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 | VN | A visible coating or soil or mineral substance but usually unable to be measured. If discontinuous over the plane, patchy veneer. |
| Coating | CT | A visible coating up to 1mm thick. Thicker soil material shall be described using defect terms (e.g. infilled seam). Thicker rock strength material shall be described as a vein. |

## Discontinuity Nature

| Code | Description |
|---|---|
| C | Crushed |
| DL | Dilated |
| DS | Displaced |
| HL | Hairline |
| HE | Healed |
| IF | Infilled |
| IT | Intact |

## Samples

| Code | Description |
|---|---|
| B | Bulk disturbed sample |
| BLK | Block sample |
| C | Core sample |
| D | Small disturbed sample |
| ES | Soil sample for environmental testing |
| EW | Water sample for environmental testing |
| G | Gas sample |
| LB | Large bulk disturbed sample |
| P | Piston sample |
| SPTLS | Standard penetration test liner sample |
| U | Undisturbed push in sample |
| U50 | Undisturbed tube sample (50 mm diameter) |
| U75 | Undisturbed tube sample (75 mm diameter) |
| CONCC | Concrete core |
| M | Mazier type sample |

## Field Tests

| Code | Description |
|---|---|
| DCP | Dynamic Cone Penetration test |
| H | Hydraulic fracturing |
| HB | Hammer bouncing |
| PP | Hand penetrometer test |
| $Is_{(50)}$ | Point Load Index |
| K | Permeability |
| N | Standard penetration test result |
| REC | Recovered length of SPT |
| PID | Photoionisation detector reading in ppm |
| R | Refusal |
| SPT | Standard penetration test |
| VS | Vane shear test |
| FP | Pressuremeter |
| ● (A) | Axial Test |
| ○ (D) | Diametral Test |
| □ | Irregular Lump test |
| uL | Lugeon value |

## Laboratory Tests

| Code | Description |
|---|---|
| ACM | Asbestos Containing Material |
| AT+MC | Atterberg Limits + moisture content |
| CD | Consolidated Drained |
| CBR | California Bearing Ratio (4 day, 4.5kg, 98%) |
| Cerchar | Cerchar Abrasivity |
| CU | Consolidated Undrained |
| DS | Direct shear along defect |
| DSI | Direct shear through intact rock |
| DTd | Direct Tensile - defect |
| DTr | Direct Tensile - rock |
| EC | Emerson Class |
| HELD | Sample held at this time for possible later testing |
| LL | Liquid Limit |
| LS | Linear Shrinkage |
| MC | Moisture Content |
| MDD | Maximum Dry Density |
| MSD | Modified slake durability |
| NAGC | Nett Acid Generating Capacity |
| OMC | Optimum Moisture Content |
| PBT | Plate Bearing Test |
| PET | Petrography |
| PHD | Pinhole dispersion |
| PI | Plasticity Index |
| PL | Plastic Limit |
| PSD | Particle Size Distribution |
| PSD+ | PSD + hydrometer |
| $\rho_b$ | Bulk Density |
| $\rho_p$ | Particle Density |
| $\rho_d$ | Dry Density |
| UCS+ | Unconfined Compressive Strength + Youngs Modulus + Poisson's Ratio (rock) + Moisture content + wet density |
| UU | Undrained Unconsolidated |
| TXL | Triaxial (rock) |
| TX | Triaxial (soil) |
| CHEM | Geochemical Testing |
| ■ | UCS Test |

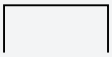
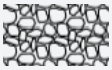
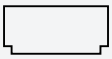
## Types fo Defects - Televiewer logging

| Type | Description |
|---|---|
| BD | Bedding, a depositional fabric in the rock, that is not considered a geotechnical defect as it is closed at the location in which it was observed |
| BN | A distinct boundary between two stratigraphic units |
| BSH | Bedding Shear, a shear connecting bedding surfaces or shearing along a bedding surface |
| CX | A contact between intrusive and stratigraphic units |
| CS | Crush seam, typically sub-horizontal seam with soft infill and possible rock fragments showing evidence of localised crushing at the location in which it was observed |
| CV | Cleavage, a secondary deformation fabric, not inherently part of the deposition fabric of the rock that presents as a surface of weakness or defect |
| FX | Fold axis, not dip and dip direction of a plane but trend and plunge of a line that represents the axis of the folded limbs |
| FT | Fault, a fracture, similar to a joint, but where defined displacement is observed (e.g. through mismatching of bedding across the structure) |
| FT/FZ | A fault or group of closely spaced faults with cumulative defined displacement observed |
| J | Joint, a fracture in the rock with little to no tensile strength |
| P | Parting, as per bedding but forms a defect in the rock as the two sides are separated at the location in which it was observed |
| SM | Clay seam, typically sub-horizontal seam with clay and no evidence of shearing at the location in which it was observed |
| SR | Shear, deformation feature with evidence of movement within the infill zone at the location in which it was observed. Often bounded by discreet structures |
| SR/ SZ | Shear zone, multiple shear features making up a wider zone of deformation |
| SS | Sheared seam, typically sub-horizontal with evidence of movement within the infill zone at the location in which it was observed |
| VE | Vein, open bounding surfaces or vuginess at the location in which it was observed |
| Vc | Vein with closed bounding surfaces at the location i n which it was observed |

## Concrete Bond Logging

| Type | Description |
|---|---|
| BLJ | Bonded Lift Joint |
| ULJ | Unbonded Lift Joint |
| LJ | Lift Joint |

## Backfill / Standpipe Detail

| Symbol | Description |
|---|---|
| | Cement seal |
| | Grout backfill |
| | Blank pipe |
| | Slotted pipe |
|  | Surface Completion: Monument Above Ground |
| | Filter pack: sand filter |
| | Filter pack: gravel filter |
| | Bentonite seal |
|  | Cutting – excavated material backfill |
|  | 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 in the hole | Obstruction preventing further advancement |
| 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 |
| Refusal | Material preventing further advancement |

## Status

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

# ENVIRONMENTAL FIELD LOG - BOREHOLE WITH WELL

| | |
|---|---|
| **HOLE No:** | **BH101** |
| **SHEET No:** | 1 of 1 |
| **PROJECT No:** | ***30013640*** |

*LOG STATUS : finalised by GDM*

PROJECT : New Bankstown Hospital
PURPOSE : Contamination
LOCATION : 500 Chapel Road, Bankstown NSW 2118

CLIENT : Health Infrastructure
POSITION : "E: 318281.470, N: 6246145.279 (MGA2020-56)"
FINAL DEPTH: 12.6m

SURFACE ELEVATION : 50.089 (AHD)
TOP OF CASING: 50.007 (AHD)
ANGLE FROM HORIZONTAL : -90°

| Drilling Method | Depth: Elev (AHD) | Depth: Depth (m) | Water | Moisture Condition | Consistency Density | Graphic Log | MATERIAL: MATERIAL DESCRIPTION (SOIL NAME: plasticity or particle characteristic, colour, secondary and minor components; ROCK NAME: grain size, colour, texture and fabric, features, inclusion and minor components) | Standpipe Construction: Construction Details | Construction notes | OTHER OBSERVATIONS: Notes (Structure, origin, etc) |
|---|---|---|---|---|---|---|---|---|---|---|
| AT | 50 | 0.10m | | | | | ASPHALT. | BH101 | Concrete: | FILL |
| | | | | | H | | FILL CLAY: high plasticity, red-brown, trace fine to medium grained, up to 40mm in size gravel. | | Bentonite: | |
| | | 0.80m | | | | | CLAY: high plasticity, grey mottled orange-brown, trace up to 20mm in size gravel. | | | RESIDUAL SOIL |
| | 48 | 2.0 | | w≈PL | St | | | | | |
| | 46 | 4.0 | | | | | | | | |
| | | 4.50m | | | | | SILTSTONE: fine grained, grey. | | Grout: | SEDIMENTARY |
| | 44 | 6.0 | | | | | | | | |
| | | | | D | | | | | | |
| | 42 | 8.0 | | | VSt | | | | | |
| | | | | | | | | | Bentonite: | |
| | 40 | 10.0 | 9/1/2025 | | | | | | Start Slotted 9.6m | |
| | | | | | | | | | Gravel: | |
| | 38 | 12.0 | | W | | | | | | |
| | | 12.60m | | | | | | | End Slotted 12.6m | |
| | | | | | | | MW Terminated at 12.60 m Target Depth (Standpipe Installed) | | | |
| | 36 | 14.0 | | | | | | | | |

**Notes:** Inflow, Outflow, Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Terratest
EQUIPMENT: Geo-205

COMMENCED: 19/12/2024
COMPLETED: 19/12/2024

LOGGED BY: HW
CHECKED BY: MF

smec

# ENVIRONMENTAL FIELD LOG - BOREHOLE WITH WELL

*LOG STATUS : finalised by GDM*

| | |
|---|---|
| **HOLE No:** | **BH102** |
| **SHEET No:** | 1 of 1 |
| **PROJECT No:** | ***30013640*** |

PROJECT : New Bankstown Hospital
PURPOSE : Contamination
LOCATION : 500 Chapel Road, Bankstown NSW 2118

CLIENT : Health Infrastructure
POSITION : "E: 318287.710, N: 6245874.860 (MGA2020-56)"
FINAL DEPTH: 11.1m

SURFACE ELEVATION : 36.138 (AHD)
TOP OF CASING: 36.023 (AHD)
ANGLE FROM HORIZONTAL : -90°

| Drilling Method | Depth: Elev (AHD) | Depth: Depth (m) | Water | Moisture Condition | Consistency Density | Graphic Log | MATERIAL: MATERIAL DESCRIPTION (SOIL NAME: plasticity or particle characteristic, colour, secondary and minor components; ROCK NAME: grain size, colour, texture and fabric, features, inclusion and minor components) | Standpipe Construction: Construction Details | Construction notes | OTHER OBSERVATIONS: Notes (Structure, origin, etc) |
|---|---|---|---|---|---|---|---|---|---|---|
| AT | 36 | 0.10m | | | | | CONCRETE. | BH102 | Concrete: | EXTREMELY WEATHERED MATERIAL |
| | | 1.0 | | | | | Silty CLAY: medium plasticity, dark grey, (Extremely Weathered). | | Bentonite: | |
| | 34 | 2.0 | | w<PL | VSt | | | | | |
| | | 3.0 | | | | | | | | |
| | 32 | 4.0 | | | | | | | Grout: | |
| | | 5.0 | | | | | | | | |
| | | 5.50m | | | | | | | | SEDIMENTARY |
| | 30 | 6.0 | | | | | SANDSTONE: fine grained, dark grey with orange. | | | |
| | | 7.0 | | D | | | | | Bentonite: | |
| | 28 | 8.0 | | | H | | | | Start Slotted 8.1m | |
| | | 9.0 | 9/1/2025 | | | | | | Gravel: | |
| | 26 | 10.0 | | W | | | | | | |
| | | 11.0 | | | | | 11.10m | | End Slotted 11.1m | |
| | | | | | | | MW Terminated at 11.10 m Target Depth (Standpipe Installed) | | | |
| | 24 | 12.0 | | | | | | | | |
| | | 13.0 | | | | | | | | |
| | 22 | 14.0 | | | | | | | | |

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Terratest
EQUIPMENT: Geo-205

COMMENCED: 19/12/2024
COMPLETED: 19/12/2024

LOGGED BY: HW
CHECKED BY: MF

# ENVIRONMENTAL FIELD LOG - BOREHOLE WITH WELL

smec

| | |
|---|---|
| **HOLE No:** | **BH103** |
| **SHEET No:** | 1 of 1 |
| **PROJECT No:** | ***30013640*** |

*LOG STATUS : finalised by GDM*

PROJECT : New Bankstown Hospital
PURPOSE : Contamination
LOCATION : 500 Chapel Road, Bankstown NSW 2118

CLIENT : Health Infrastructure
POSITION : "E: 318308.110, N: 6245755.610 (MGA2020-56)"
FINAL DEPTH: 14.5m

SURFACE ELEVATION : 32.224 (AHD)
TOP OF CASING: 32.064 (AHD)
ANGLE FROM HORIZONTAL : -90°

| Drilling Method | Depth: Elev (AHD) | Depth: Depth (m) | Water | Moisture Condition | Consistency Density | Graphic Log | MATERIAL: MATERIAL DESCRIPTION (SOIL NAME: plasticity or particle characteristic, colour, secondary and minor components; ROCK NAME: grain size, colour, texture and fabric, features, inclusion and minor components) | Standpipe Construction: Construction Details | Construction notes | OTHER OBSERVATIONS: Notes (Structure, origin, etc) |
|---|---|---|---|---|---|---|---|---|---|---|
| AT | 32 | 0.0 | | M | L | | 0.10m ASPHALT. | BH103 | Concrete: | FILL |
| | | | | | | | 0.30m FILL Sandy GRAVEL: coarse grained, up to 40 mm, dark grey. | | Bentonite: | RESIDUAL SOIL |
| | | 1.0 | | | | | Silty CLAY: low plasticity, orange-brown. | | | |
| | 30 | 2.0 | | w≈PL | St | | | | | |
| | | 3.0 | | | | | 3.40m | | | SEDIMENTARY |
| | | | | | | | SILTSTONE: fine grained, dark grey, orange. | | | |
| | 28 | 4.0 | | | | | | | Grout: | |
| | | 5.0 | | | | | | | | |
| | | | | | | | 6.00m | | | |
| | 26 | 6.0 | | | | | SANDSTONE: medium grained, pale orange with pale grey. | | | |
| | | 7.0 | | D | | | | | Bentonite: | |
| | 24 | 8.0 | | | | | | | Start Slotted 8.5m | |
| | | 9.0 | | | H | | | | | |
| | | 10.0 | | | | | | | | |
| | 22 | | 9/1/2025 | | | | | | Gravel: | |
| | | 11.0 | | | | | | | | |
| | | 12.0 | | W | | | | | | |
| | 20 | 13.0 | | | | | | | | |
| | | 14.0 | | | | | | | | |
| | 18 | | | | | | 14.50m | | End Slotted 14.5m | |
| | | | | | | | MW Terminated at 14.50 m Target Depth (Standpipe Installed) | | | |

**Notes:** Inflow Outflow Standing Water Level

Pipe Description:

Pipe Screen Details:

CONTRACTOR: Terratest
EQUIPMENT: Geo-205

COMMENCED: 19/12/2024
COMPLETED: 19/12/2024

LOGGED BY: HW
CHECKED BY: MF

# TEST PIT: TP101

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318321.0 m E 6246141.3 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 51.98 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 51.98 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 51.88 | ES 0.10-0.50 m | | | CL | FILL Silty CLAY: low plasticity, dark brown. | w<PL | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 51.68 | | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | D | | |
| | | | | *0.40* | | | | | | | | |
| | | | | 51.58 | | | | CH | CLAY: high plasticity, red-brown. | | | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | | | | | | | | w≈PL | F | |
| | | | 1.0 | | ES 1.00-1.20 m | | | | | | | |
| | | | | *1.20* | | | | | | | | |
| | | | | 50.78 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP102

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318358.8 m E 6246137.7 m N MGA2020-56
Surface RL: 52.32 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 52.32 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | 0.10 | | | | | | | | |
| | | | | 52.22 | ES 0.10-0.50 m | | | CL | FILL Silty CLAY: low plasticity, pale brown, coal inclusions. | w<PL | | FILL |
| | | | | 0.30 | | | | | | | | |
| | | | | 52.02 | | | | CL | FILL Silty CLAY: low plasticity, dark brown. | w<PL | | |
| | | | 0.5 | | | | | | | | | |
| | | | | 0.70 | | | | | | | | |
| | | | | 51.62 | ES 0.70-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w≈PL | F | RESIDUAL SOIL |
| | | | 1.0 | 1.00 | | | | | | | | |
| | | | | 51.32 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP103

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318277.9 m E 6246066.8 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 45.51 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 45.51 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 45.21 | | | | CL | FILL CLAY: low plasticity, brown. | | | FILL |
| | | | 0.5 | | ES 0.60-0.70 m | | | | | w<PL | | |
| | | | 1.0 | *1.10* | | | | | | | | |
| | | | | 44.41 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | | | ES 1.30-1.50 m | | | | | w<PL | F | |
| | | | 1.5 | *1.50* | | | | | | | | |
| | | | | 44.01 | | | | | TP Terminated at 1.50 m<br>Target Depth | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP104

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318300.8 m E 6246075.4 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 46.50 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 46.50 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 46.40 | | | | SP | FILL Gravelly SAND: medium grained, brown, gravel is angular, 20mm in size. | | | FILL |
| | | | | | ES 0.20-0.60 m | | | | | M | | |
| | | | 0.5 | | | | | | | | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 45.70 | | | | CH | CLAY: high plasticity, brown-red mottled grey. | | | RESIDUAL SOIL |
| | | | | | ES 0.90-1.20 m | | | | | | | |
| | | | 1.0 | | | | | | | w≈PL | St | |
| | | | | *1.20* | | | | | | | | |
| | | | | 45.30 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP105

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318271.9 m E 6246052.2 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 44.60 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 44.60 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.20* 44.40 | | | | SP | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods), ACM observed. | | | FILL |
| | | | 0.5 | | ES 0.40-0.60 m | | | | | D | | |
| | | | 1.0 | *1.10* 43.50 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.5 | | ES 1.40-1.50 m | | | | | | | |
| | | | | *1.60* 43.00 | | | | | TP Terminated at 1.60 m Target Depth | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP106

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318298.4 m E 6246053.2 m N MGA2020-56
Surface RL: 45.00 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 45.00 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 44.90 | ES 0.10-0.50 m | | | SP | FILL Gravelly SAND: medium grained, brown, gravel is angular, 20mm in size. | M | | FILL |
| | | | | *0.50* | | | | | | | | |
| | | | 0.5 | 44.50 | | | | CH | CLAY: high plasticity, brown-red mottled grey. | w≈PL | St | RESIDUAL SOIL |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 44.00 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP107

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318349.3 m E 6246082.7 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 48.15 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450 Bucket | | Not Encountered | 0.0 | 48.15 | ES 0.10-0.20 m | | | CL | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods), ACM observed. | w<PL | | FILL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | | | |
| | | | | *0.90* 47.25 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.0 | | ES 1.10-1.20 m | | | | | | | |
| | | | | *1.20* 46.95 | | | | | TP Terminated at 1.20 m Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP108

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318280.4 m E 6246146.0 m N MGA2020-56
Surface RL: 50.01 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 50.01 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 49.91 | | | | CL | FILL Silty CLAY: low plasticity, dark brown. | w<PL | | FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 49.81 | ES 0.20-0.50 m | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | D | | |
| | | | | *0.30* | | | | | | | | |
| | | | | 49.71 | | | | CH | CLAY: high plasticity, red-brown. | w≈PL | F | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | | *0.60* | | | | | | | | |
| | | | | 49.41 | ES 0.60-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 49.01 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP109

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318329.7 m E 6246013.4 m N MGA2020-56
Surface RL: 40.81 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 40.81 | | | | | PAVERS. | | | CONCRETE |
| | | | | *0.10* 40.71 | | | | CL | FILL Sandy CLAY: low plasticity, brown, trace building materials (brick and tile). | w<PL | | FILL |
| | | | 0.5 | | ES 0.20-0.30 m | | | | | | | |
| | | | | *0.70* 40.11 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.0 | | ES 0.90-1.00 m | | | | | | | |
| | | | | *1.00* 39.81 | | | | | TP Terminated at 1.00 m Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP110

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318263.3 m E 6245993.9 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 40.70 m AHD |
| Client: | Health Infrastructure | Contractor: | Terratest |
| Job No.: | 30013640 | Machine: | Geo-205 Bucket Size: 300m auger |

Date: 9/12/2024
Logged: LR

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 250mm Auger | | Not Encountered | 0.0 | 40.70 | | | | | CONCRETE. | | | CONCRETE |
| | | | | *0.10* | | | | | | | | |
| | | | | 40.60 | ES 0.10-0.20 m | | | SP | FILL SAND: brown. | M | | FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 40.50 | | | | CH | CLAY: high plasticity, red. | | | RESIDUAL SOIL |
| | | | 0.5 | | ES 0.60-0.70 m | | | | | w≈PL | F | |
| | | | | *0.80* | | | | | | | | |
| | | | | 39.90 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP111

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318294.0 m E 6245992.7 m N MGA2020-56
Surface RL: 40.90 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.90 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* | ES 0.05-0.10 m | | | | | | | |
| | | | | 40.80 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, metal rods). One fragment of ACM observed in good condition. | w<PL | | FILL |
| | | | | | ES 0.40-0.50 m | | | | | | | |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 40.40 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | *0.80* | | | | | | | | |
| | | | | 40.10 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP112

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318303.2 m E 6245977.6 m N MGA2020-56
Surface RL: 41.02 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 41.02 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* 40.92 | ES 0.05-0.10 m | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, metal rods). Two fragments of ACM observed in good condition. | | | FILL |
| | | | | | ES 0.30-0.40 m | | | | | w<PL | | |
| | | | 0.5 | *0.50* 40.52 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | | | ES 0.90-1.00 m | | | | | w<PL | F | |
| | | | 1.0 | *1.00* 40.02 | | | | | TP Terminated at 1.00 m Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP113

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318297.6 m E 6245961.6 m N MGA2020-56
Surface RL: 40.94 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.94 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* 40.84 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile). | | | FILL |
| | | | | | ES 0.30-0.40 m | | | | | w<PL | | |
| | | | 0.5 | *0.50* 40.44 | | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | | | |
| | | | | | ES 0.60-0.70 m | | | | | D | | |
| | | | | *0.80* 40.14 | | | | CL | CLAY: low plasticity, pale brown. | | | RE-WORKED RESIDUAL |
| | | | 1.0 | | | | | | | w<PL | VSt | |
| | | | | *1.20* 39.74 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP114

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318291.1 m E 6245953.0 m N MGA2020-56
Surface RL: 40.85 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.85 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.20* 40.65 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, metal rods). | | | FILL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | | | |
| | | | 1.0 | | | | | | | w<PL | | |
| | | | 1.5 | | ES 1.50-1.60 m | | | | | | | |
| | | | | *1.80* 39.05 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 2.0 | | ES 2.10-2.20 m | | | | | | | |
| | | | | *2.20* 38.65 | | | | | TP Terminated at 2.20 m Target Depth | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP115

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318302.1 m E 6245953.2 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 40.80 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.80 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 40.60 | ES 0.30-0.40 m | | | CL | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods). One fragment of ACM observed in good condition. | w<PL | | FILL |
| | | | | *0.40* | | | | | | | | |
| | | | | 40.40 | | | | SP | FILL SAND: dark grey, trace 20mm in size gravel; ash coals. | D | | |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 40.30 | ES 0.80-0.90 m | | | CL | CLAY: low plasticity, pale brown. | w<PL | VSt | REWORKED RESIDUAL |
| | | | 1.0 | | | | | | | | | |
| | | | | *1.10* | | | | | | | | |
| | | | | 39.70 | ES 1.30-1.40 m | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 1.5 | *1.50* | | | | | | | | |
| | | | | 39.30 | | | | | TP Terminated at 1.50 m<br>Target Depth | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP116

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318330.5 m E 6245974.5 m N MGA2020-56
Surface RL: 41.07 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 41.07 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 40.77 | | | | CL | FILL CLAY: low plasticity, brown, trace building waste (brick, tile, terracotta). | | | FILL |
| | | | 0.5 | | ES 0.60-0.70 m | | | | | w<PL | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 40.27 | | | | CH | CLAY: high plasticity, red-brown. | w≈PL | F | RESIDUAL SOIL |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 40.07 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP117

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318337.9 m E 6245947.6 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 41.03 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 450mm bucket |
| | | Date: | 9/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | *DEPTH* RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 41.03 | ES 0.10-0.20 m | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 40.73 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | w<PL | F | |
| | | | | *0.70* | | | | | | | | |
| | | | | 40.33 | | | | | TP Terminated at 0.70 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP118

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318273.1 m E 6245942.6 m N MGA2020-56
Surface RL: 40.35 m AHD
Contractor: Terratest
Machine: Geo-205 Bucket Size: 300m auger

Date: 9/12/2024
Logged: PP

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| DT | | | 0.0 | 40.35 | | | | | CONCRETE: grey, 30% aggregate 70% matrix, fine to medium grained angular gravel. | | | CONCRETE |
| | | | | *0.10* | | | | | | | | |
| | | | | 40.25 | | | | SP | FILL Gravelly SAND: fine to medium grained, dark grey. | M | L | FILL |
| | | | | | ES 0.30-0.40 m | | | | | | | |
| | | | | *0.40* | | | | | | | | |
| | | | | 39.95 | | | | CL | FILL CLAY: low plasticity, dark brown, trace rounded, 40mm in size gravel. | | | |
| AD/T | | Not Encountered | 0.5 | | | | | | | w≈PL | F | |
| | | | | | ES 0.70-0.80 m | | | | | | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 39.55 | | | | CH | CLAY: high plasticity, red-brown. | | | RESIDUAL SOIL |
| | | | 1.0 | | | | | | | w≈PL | F | |
| | | | | *1.20* | | | | | | | | |
| | | | | 39.15 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP119

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318285.4 m E 6245932.7 m N MGA2020-56
Surface RL: 40.44 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 9/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 40.44 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, dark brown. | w≈PL | | TOPSOIL FILL |
| | | | | *0.10* 40.34 | | | | CL | FILL CLAY: low plasticity, brown, building waste (brick, tile, metal rods). One fragment of ACM observed during backfill. | | | FILL |
| | | | 0.5 | | ES 0.25-0.35 m | | | | | w<PL | F | |
| | | | | | ES 0.80-0.90 m | | | | | | | |
| | | | 1.0 | *1.00* 39.44 | | | | | TP Terminated at 1.00 m<br>Possible services | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP120

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318324.4 m E 6245880.9 m N MGA2020-56
Surface RL: 37.04 m AHD
Contractor: Terratest
Machine: Geo-205 Bucket Size: 300m auger

Date: 10/12/2024
Logged: LR

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 250mm Auger | | Not Encountered | 0.0 | 37.04 | | | | | CONCRETE. | | | CONCRETE |
| | | | | 0.18 | | | | | | | | |
| | | | | 36.86 | | | | | | | | EXTREMELY WEATHERED MATERIAL |
| | | | 0.5 | | ES 0.30-0.40 m | | | CI | CLAY WITH COBBLES: medium plasticity, dark grey, orange, cobbles are uniform, fine grained, angular to sub-angular; (Extremely Weathered). | w≈PL | | |
| | | | 1.0 | 1.00 | | | | | | | | |
| | | | | 36.04 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP121

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318269.3 m E 6245852.1 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 34.70 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 34.70 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 34.60 | ES 0.10-0.30 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 34.40 | ES 0.30-0.50 m | | | CH | CLAY: high plasticity, dark grey. | w≈PL | | RE-WORKED RESIDUAL |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 34.20 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 33.70 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP122

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318295.4 m E 6245852.6 m N MGA2020-56
Surface RL: 35.74 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 35.74 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 35.64 | ES 0.10-0.50 m | | | SP | FILL Gravelly SAND: medium grained, grey, one fragment of ACM observed in good condition. | D | | FILL |
| | | | | *0.20* | | | | | | | | |
| | | | | 35.54 | | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 35.24 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 34.74 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP123

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318311.3 m E 6245852.1 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 36.17 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 36.17 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 36.07 | ES 0.10-0.40 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.40* | | | | | | | | |
| | | | 0.5 | 35.77 | ES 0.40-0.80 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 35.17 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP124

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318268.4 m E 6245834.6 m N MGA2020-56
Surface RL: 33.89 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 10/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 33.89 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 33.79 | ES 0.10-0.30 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 33.59 | | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | w<PL | F | |
| | | | | | ES 0.80-1.00 m | | | | | | | |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 32.89 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP125

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318284.6 m E 6245830.1 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 34.60 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 34.60 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 34.50 | ES 0.10-0.30 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 34.30 | ES 0.30-0.80 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 0.5 | *0.80* | | | | | | | | |
| | | | | 33.80 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP126

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318306.9 m E 6245828.4 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 35.23 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 10/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 35.23 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 35.13 | ES 0.10-0.40 m | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.40* | | | | | | | | |
| | | | 0.5 | 34.83 | ES 0.40-0.70 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | | *1.00* | | | | | | | | |
| | | | 1.0 | 34.23 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP127

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318238.1 m E 6245812.7 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 32.11 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 11/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 32.11 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 32.01 | ES 0.10-0.30 m | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | | *0.30* | | | | | | | | |
| | | | | 31.81 | | | | CL | FILL Sandy CLAY: low plasticity, sand is medium grained; trace 40mm in size gravel; glass and terracotta inclusions. | | | FILL |
| | | | 0.5 | | ES 0.40-0.90 m | | | | | w<PL | | |
| | | | | *0.90* | | | | | | | | |
| | | | | 31.21 | ES 0.90-1.20 m | | | CH | CLAY: high plasticity, grey mottled orange. | | | RESIDUAL SOIL |
| | | | 1.0 | | | | | | | w<PL | F | |
| | | | | *1.20* | | | | | | | | |
| | | | | 30.91 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP128

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318282.4 m E 6245804.5 m N MGA2020-56
Surface RL: 33.74 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| | | | 0.0 | 33.74 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 33.64 | ES 0.10-0.40 m | | | CI | FILL Gravelly CLAY: medium plasticity, dark grey, gravel is 30mm in size. | w≈PL | | FILL |
| | | | | *0.40* | | | | | | | | |
| 200mm Auger | | Not Encountered | | 33.34 | ES 0.40-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 0.5 | | | | | | | | | |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 32.74 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP129

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318307.8 m E 6245792.3 m N MGA2020-56
Surface RL: 33.76 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 33.76 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 33.66 | ES 0.10-0.50 m | | | SP | FILL SAND: medium grained, grey. | D | | FILL |
| | | | | *0.30* | | | | | | | | |
| | | | | 33.46 | | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | 0.5 | *0.50* | | | | | | | | |
| | | | | 33.26 | ES 0.50-1.00 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.0 | *1.00* | | | | | | | | |
| | | | | 32.76 | | | | | TP Terminated at 1.00 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP130

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Project: | New Bankstown Hospital | Coords: | 318239.7 m E 6245765.7 m N MGA2020-56 |
| Location: | 500 Chapel Road, Bankstown NSW 2118 | Surface RL: | 30.86 m AHD |
| Client: | Health Infrastructure | Contractor: | Coast Excavations |
| Job No.: | 30013640 | Machine: | Kubota U35-4 3.7t Bucket Size: 300m auger |
| | | Date: | 11/12/2024 |
| | | Logged: | HW |

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 30.86 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 30.76 | ES 0.10-0.60 m | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | | *0.30* | | | | | | | | |
| | | | | 30.56 | | | | CI | FILL Sandy CLAY: medium plasticity, brown, sand is medium grained; terracotta inclusions. | w≈PL | | FILL |
| | | | 0.5 | | | | | | | | | |
| | | | | *0.60* | | | | | | | | |
| | | | | 30.26 | ES 0.60-1.20 m | | | CH | CLAY: high plasticity, pale brown. | w≈PL | St | RESIDUAL SOIL |
| | | | 1.0 | | | | | | | | | |
| | | | | *1.20* | | | | | | | | |
| | | | | 29.66 | | | | | TP Terminated at 1.20 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF

Date 6/2/2025

# TEST PIT: TP131

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318282.0 m E 6245760.0 m N MGA2020-56
Surface RL: 32.08 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 300m auger

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 200mm Auger | | Not Encountered | 0.0 | 32.08 | | | | | ASPHALT. | | | ROAD SURFACE |
| | | | | *0.10* | | | | | | | | |
| | | | | 31.98 | ES 0.10-0.50 m | | | CL | CLAY: low plasticity, brown-red. | w<PL | | RE-WORKED RESIDUAL |
| | | | | *0.30* | | | | | | | | |
| | | | | 31.78 | | | | SP | FILL Gravelly SAND: medium grained, grey. | D | | FILL |
| | | | | *0.50* | | | | | | | | |
| | | | 0.5 | 31.58 | ES 0.50-1.10 m | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 1.0 | *1.10* | | | | | | | | |
| | | | | 30.98 | | | | | TP Terminated at 1.10 m<br>Target Depth | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# TEST PIT: TP132

Sheet 1 of 1

Project: New Bankstown Hospital
Location: 500 Chapel Road, Bankstown NSW 2118
Client: Health Infrastructure
Job No.: 30013640

Coords: 318311.0 m E 6245762.7 m N MGA2020-56
Surface RL: 32.54 m AHD
Contractor: Coast Excavations
Machine: Kubota U35-4 3.7t Bucket Size: 450mm bucket

Date: 11/12/2024
Logged: HW

| Excavation | | | | | Sampling | | Field Material Description | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD | EXCAVATION RESISTANCE | WATER | DEPTH (metres) | DEPTH RL | SAMPLE OR FIELD TEST | RECOVERED | GRAPHIC LOG | GROUP SYMBOL | SOIL/ROCK MATERIAL DESCRIPTION | MOISTURE CONDITION | CONSISTENCY DENSITY | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| 450mm Bucket | | Not Encountered | 0.0 | 32.54 | | | | CL | TOPSOIL FILL Silty CLAY: low plasticity, brown. | w<PL | | TOPSOIL FILL |
| | | | | | ES 0.20-0.30 m | | | | | | | |
| | | | | *0.30* | | | | | | | | |
| | | | | 32.24 | | | | CH | CLAY: high plasticity, grey mottled orange. | w<PL | F | RESIDUAL SOIL |
| | | | 0.5 | | ES 0.50-0.60 m | | | | | | | |
| | | | | *0.80* | | | | | | | | |
| | | | | 31.74 | | | | | TP Terminated at 0.80 m<br>Target Depth | | | |
| | | | 1.0 | | | | | | | | | |
| | | | 1.5 | | | | | | | | | |
| | | | 2.0 | | | | | | | | | |
| | | | 2.5 | | | | | | | | | |
| | | | 3.0 | | | | | | | | | |

Comments

Checked MF
Date 6/2/2025

# SOIL BOREHOLE S01

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,301.34
**Northing** 6,246,138.97
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.1 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S01 0.1-0.2 | 3 | No Odours, Staining or Asbestos |
| | | 0.2 | | Fill | Fill- Silty gravel, grey, well graded, coarse, angular, very loose, dry, heterogeneous, inclusions of ash and slag | D | S01 0.2-0.3 | 1 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, red, homogeneous, hard, low plasticity | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S01 0.5-0.6 | 2 | No Odours, Staining or Asbestos |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S02

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,346.39
**Northing** 6,246,132.98
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | | | Concrete | Fill- Bitumen | D | | | |
| | | 0.1 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S02 0.1-0.2 | 2 | No Odours, Staining or Asbestos |
| | | 0.2 | | Fill | Fill- Ash (crushed), homogeneous, very fine, poorly graded, very loose, dry | D | S02 0.2-0.3 | 2 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, red/orange, homogeneous, stiff, low plasticity | D | | | |
| | | 0.4 | | | | | S02 0.4-0.5 | 3 | No Odours, Staining or Asbestos |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S03

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,288.16
**Northing** 6,246,100.97
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S03 0.2-0.3 | 2 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, red/brown, medium plasticity, stiff, dry | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S03 0.5-0.6 | 2 | No Odours, Staining or Asbestos |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S04

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,340.47
**Northing** 6,246,093.6
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S04 0.2-0.3 | 2 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, brown/red/grey, homogeneous, stiff, non plastic, dry, hard | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S04 0.5-0.6 | 1 | No Odours, Staining or Asbestos |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S05

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,299.77
**Northing** 6,246,074.84
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S05 0.2-0.3 | 1 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, brown/red/grey, homogeneous, stiff, non plastic, dry, hard | D | | | |
| | | 0.5 | | | | | S05 0.5-0.6 | 1 | No Odours, Staining or Asbestos |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S06

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,344.74
**Northing** 6,246,078.1
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Fill | Fill- Sandy silt (garden soil), brown, heterogeneous, very soft, inclusions of small gravels | D | | | |
| | | 0.2 | | | | | S06 0.1-0.2 | 1 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, brown/red, homogeneous, stiff, non plastic, dry, hard | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | | | S06 0.6-0.7 | 1 | No Odours, Staining or Asbestos |
| | | 0.7 | | | Termination Depth at: 0.70 m. | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S07

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,306.15
**Northing** 6,246,046.78
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S07 0.1-0.2 | 3 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, brown/red/grey, homogeneous, stiff, high plasticity, hard | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S07 0.5-0.6 | 2 | No Odours, Staining or Asbestos |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S08

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,285.13
**Northing** 6,246,032.92
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S08 0.1-0.2 | 3 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, brown/red/grey, homogeneous, stiff, high plasticity, hard | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S08 0.5-0.6 | 2 | No Odours, Staining or Asbestos |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S09

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,343
**Northing** 6,246,028.27
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Fill | Fill- Sandy silt, light brown, heterogeneous, fine sand, very loose, trace gravels | D | | | |
| | | | | | | | S09 0.1-0.2 | 2 | No Odours, Staining or Asbestos |
| | | 0.2 | | | | | | | |
| | | 0.3 | | CH | Clay, brown/red/grey, homogeneous, stiff, high plasticity, hard | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S09 0.5-0.6 | 1 | No Odours, Staining or Asbestos |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | S09 0.8-0.9 | 2 | No Odours, Staining or Asbestos |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | Termination Depth at: 1.00 m. | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S10

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,258.74
**Northing** 6,245,992.39
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | | Termination Depth at: 0.20 m. | | | | |
| | | 0.3 | | | | | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S11

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,305.46
**Northing** 6,245,975.09
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Fill | Fill- Sandy silt, grey, heterogeneous, soft, fine, inclusions of gravel, tile, concrete, brick, pebbles and ash | D | S11_0-0.5 | | |
| | | | | | | | S11 0.1-0.2 | 2 | No Odours, Staining or Asbestos |
| | | 0.2 | | | | | | | |
| | | 0.3 | | | | | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S11_0.5-1.0 | 2 | No Odours, Staining or Asbestos |
| | | 0.6 | | | | | | | |
| | | 0.7 | | CH | Clay, red/grey, homogeneous, stiff, dry, low plasticity | D | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | S11 0.9-1.0 | 1 | No Odours, Staining or Asbestos |
| | | 1 | | | Termination Depth at: 1.00 m. | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S12

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,324.55
**Northing** 6,245,991.47
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Fill | Fill- Sandy silt, dark brown, heterogeneous, medium dense, soft, inclusions of trace gravel | D | | | |
| | | | | | | | S12 0.1-0.2 | 2 | No Odours, Staining or Asbestos |
| | | 0.2 | | Fill | Fill- Sil;ty reworked clay, grey, heterogeneous, non plastic, soft, inclusions of gravel, concrete and brick | D | | | |
| | | 0.3 | | | | | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S12 0.5-0.6 | 2 | No Odours, Staining or Asbestos |
| | | 0.6 | | CH | Clay, grey, homogeneous, medium plasticity, stiff | D | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | S12 0.8-0.9 | 1 | No Odours, Staining or Asbestos |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | | | | Termination Depth at: 1.00 m. | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S13

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,302.43
**Northing** 6,245,952.76
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Fill | Fill- Sandy silt (topsoil), dark brown, heterogeneous, non plastic, very soft, fine sand, inclusions of ash, brick, tile, gravel, concrete, sandstone | D | | | |
| | | | | | | | S13 0.1-0.2 | 2 | No Odours, Staining or Asbestos |
| | | 0.2 | | | | | | | |
| | | 0.3 | | | | | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | Fill | Fill- Ash, rounded | D | S13 0.7-0.8 | 2 | No Odours, Staining or Asbestos |
| | | 0.8 | | CH | Clay, brown/red, homogeneous, stiff, non plastic, dry, hard | D | | | |
| | | 0.9 | | | | | S13 0.9-1.0 | 1 | No Odours, Staining or Asbestos |
| | | 1 | | | | | | | |
| | | 1.1 | | | Termination Depth at: 1.10 m. | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

# SOIL BOREHOLE S14

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,257.7
**Northing** 6,245,948.93
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | CH | Clay, brown/red/grey, homogeneous, stiff, high plasticity, hard | | S14 0.2-0.3 | 2 | No Odours, Staining or Asbestos |
| | | 0.3 | | | | | | | |
| | | 0.4 | | | | | S14 0.4-0.5 | 1 | No Odours, Staining or Asbestos |
| | | 0.5 | | | Termination Depth at: 0.50 m. | | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S15

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,321.93
**Northing** 6,245,929.48
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | Fill | Fill- Sandy clay, reworked, grey/brown, heterogeneous, low plasticity, firm, inclusions of trace gravels | D | | | |
| | | 0.3 | | | | | S15 0.3-0.4 | 0 | No Odours, Staining or Asbestos |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | CH | Clay, brown, homogeneous, medium plasticity, firm | D | S15 0.6-0.7 | 0 | No Odours, Staining or Asbestos |
| | | 0.7 | | | Termination Depth at: 0.70 m. | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S16

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,327.39
**Northing** 6,245,877.35
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Concrete | Fill- Concrete | D | | | |
| | | 0.2 | | CH | Clay, brown/grey, homogeneous, medium plasticity, soft, inclusions of trace gravels | D | | | |
| | | 0.3 | | | | | S16 0.3-0.4 | 0.2 | No Odours, Staining or Asbestos |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | Termination Depth at: 0.80 m. | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S17

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,247.19
**Northing** 6,245,895.67
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Roadbase, Silty gravel, light brown, well graded, coarse, angular, sub angular, very loose | D | S17 0.1-0.2 | 2 | No Odours, Staining or Asbestos |
| | | 0.3 | | | | | | | |
| | | 0.4 | | CH | Clay, red/brown, homogeneous, non plastic, hard | D | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | Termination Depth at: 0.60 m. | | S17 0.6-0.7 | 1 | No Odours, Staining or Asbestos |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S18

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** N/A
**Method** Hand Auger

**Easting** 318,256.08
**Northing** 6,245,846.44
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| HA | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Silty gravel (roadbase), grey, homogeneous, well graded, angular, loose | D | S18 0.1-0.2 | 0.9 | No Odours, Staining or Asbestos |
| | | 0.3 | | Fill | Fill- clay (reworked) brown, homogeneous, medium plasticity, stiff, inclusions of angular gravels | D | S18 0.2-0.3 | 0.8 | No Odours, Staining or Asbestos |
| | | 0.4 | | CH | Clay, light brown/grey, homogeneous, medium plasticity, firm | D | | | |
| | | 0.5 | | | | | S18 0.4-0.5 | 0.3 | No Odours, Staining or Asbestos |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | Termination Depth at: 1.20 m. | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S19

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** Geoprobe
**Method** Push Tube

**Easting** 318,308.81
**Northing** 6,245,841.08
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| PT | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | CH | Clay, brown/red, homogeneous, non plastic, firm | D | S19 0.1-0.2 | 1 | No Odours, Staining or Asbestos |
| | | 0.3 | | | | | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | CH | Clay, brown/grey, homogeneous, non plastic, soft, brittle | D | | | |
| | | 0.8 | | | | | S19 0.8-0.9 | 1 | No Odours, Staining or Asbestos |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | Termination Depth at: 1.20 m. | | | | |
| | | 1.3 | | | | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

# SOIL BOREHOLE S20

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** Geoprobe
**Method** Push Tube

**Easting** 318,305.3
**Northing** 6,245,800.63
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| PT | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | CH | Clay, grey, homogeneous, non plastic, stiff, dry | D | S20 0.1-0.2 | 0.8 | No Odours, Staining or Asbestos |
| | | | | CH | Clay, brown/grey, homogeneous, medium plasticity, firm | D | | | |
| | | 0.3 | | | | | S20 0.3-0.4 | 0.6 | No Odours, Staining or Asbestos |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | Termination Depth at: 1.20 m. | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S21

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** Geoprobe
**Method** Push Tube

**Easting** 318,252.19
**Northing** 6,245,809.69
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| PT | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Silty gravel (roadbase), grey, homogeneous, well graded, angular, loose | D | S21 0.1-0.2 | 5 | No Odours, Staining or Asbestos |
| | | 0.3 | | Fill | Fill- Clay (reworked), dark brown/dark red, heterogeneous, non plastic, stiff, inclusions of angular gravel, concrete, sandstone and ironstone | D | | | |
| | | 0.4 | | | | | S21 0.4-0.5 | 3 | No Odours, Staining or Asbestos |
| | | 0.5 | | CH | Clay, brown/grey, homogeneous, stiff, dry, low plasticity | D | | | |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | S21 0.9-1.0 | 3 | No Odours, Staining or Asbestos |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | Termination Depth at: 1.20 m. | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S22

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** Geoprobe
**Method** Push Tube

**Easting** 318,298.33
**Northing** 6,245,755.53
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| PT | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Silty gravel (roadbase), grey, homogeneous, well graded, angular, loose | D | S22 0.1-0.2 | 1 | No Odours, Staining or Asbestos |
| | | 0.3 | | CH | Clay, brown/grey, homogeneous, stiff, dry, low plasticity | D | | | |
| | | 0.4 | | | | | | | |
| | | 0.5 | | | | | S22 0.5-0.6 | 1 | No Odours, Staining or Asbestos |
| | | 0.6 | | | | | | | |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | Termination Depth at: 1.20 m. | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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# SOIL BOREHOLE S23

**Project Number** 58476_TAFE
**Client** Health Infrastructure
**Project Name** Bankstown DD TAFE
**Address** Bankstown NSW

**Contractor** Terratest
**Date** 30-May-21
**Plant** Geoprobe
**Method** Push Tube

**Easting** 318,258.89
**Northing** 6,245,765.2
**Coordinate System** N/A
**Logged By** JD

| Method | Water (m bgl) | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description | Moisture | Samples | PID | Additional Observations |
|---|---|---|---|---|---|---|---|---|---|
| PT | | 0.1 | | Bitumen | Fill- Bitumen | D | | | |
| | | 0.2 | | Fill | Fill- Silty gravel (roadbase), grey, homogeneous, well graded, angular, loose | D | S23 0.1-0.2 | 1.1 | No Odours, Staining or Asbestos |
| | | 0.3 | | Fill | Fill- Clay (reworked), brown, homogeneous, medium plasticity, stiff, inclusions of angular gravels and concrete | D | | | |
| | | 0.4 | | | | | S23 0.4-0.5 | 0.8 | No Odours, Staining or Asbestos |
| | | 0.5 | | CH | Clay, light brown/grey, homogeneous, medium plasticity, firm | D | | | |
| | | 0.6 | | | | | S23 0.6-0.7 | 0.6 | No Odours, Staining or Asbestos |
| | | 0.7 | | | | | | | |
| | | 0.8 | | | | | | | |
| | | 0.9 | | | | | | | |
| | | 1 | | | | | | | |
| | | 1.1 | | | | | | | |
| | | 1.2 | | | | | | | |
| | | 1.3 | | | Termination Depth at: 1.20 m. | | | | |
| | | 1.4 | | | | | | | |

**Comments:**

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Appendix C

# Analytical Summary Tables

| | | | Metals | | | | | | | | | TRH | | | | | | | TPH | | | | | | BTEXN | | | | | | | | | PAH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Cadmium | Calcium (filtered) | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | 1 | 0.3 | 2 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 20 | 20 | 25 | 25 | 90 | 100 | 100 | 100 | 20 | 20 | 45 | 45 | 50 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Remediation Assessment Criteria | | | 300 | 90 | | 300 | 17000 | 600 | 80 | 1,200 | 30,000 | 700 | 45 | 120 | 110 | 300 | 2800 | | | | | | | | 0.5 | 85 | 55 | 170 | | | 40 | 170 | | | | | | | 0.7 | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 180 | 1.5 | - | 9.2 | 33 | 45 | 0.13 | 29 | 89 | <25 | <25 | <25 | <25 | 100 | <120 | <210 | <100 | <20 | <20 | 46 | 97 | 140 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.9 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 6 | <0.3 | - | 12 | 14 | 26 | <0.05 | 7.7 | 59 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | 1 | <0.3 | - | 5.8 | 55 | 2 | <0.05 | 74 | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | 1 | <0.3 | - | 6.4 | 51 | 2 | <0.05 | 37 | 27 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 97 | 0.8 | - | 11 | 15 | 28 | 0.06 | 12 | 45 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | 8 | <0.3 | - | 15 | 16 | 15 | <0.05 | 3.5 | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 31 | <0.3 | - | 13 | 21 | 26 | 0.07 | 17 | 50 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | 78 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | 7 | <0.3 | - | 17 | 19 | 14 | <0.05 | 7.0 | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | 5 | <0.3 | - | 7.6 | 29 | 11 | 0.09 | 26 | 52 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 2 | <0.3 | - | 12 | 26 | 15 | <0.05 | 8.9 | 35 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | 13 | <0.3 | - | 20 | 12 | 18 | <0.05 | 5.7 | 20 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 7 | <0.3 | 5,700 | 21 | 30 | 130 | 0.20 | 18 | 160 | <25 | <25 | <25 | <25 | 130 | <120 | <210 | <100 | <20 | <20 | 86 | 67 | 150 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | 0.2 | 0.3 | 1.0 | 0.9 | 0.7 | 0.5 | 0.7 | 0.9 | 0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 5 | <0.3 | - | 12 | 25 | 86 | 0.17 | 13 | 130 | <25 | <25 | <25 | <25 | 92 | <120 | <210 | <100 | <20 | <20 | 57 | 53 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | <0.1 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 5 | <0.3 | - | 7.8 | 31 | 80 | 0.15 | 12 | 220 | <25 | <25 | <25 | <25 | 91 | <120 | <210 | <100 | <20 | <20 | 56 | 51 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | <0.1 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | 9 | <0.3 | - | 19 | 15 | 21 | <0.05 | 5.4 | 32 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 3 | <0.3 | 1,300 | 5.2 | 27 | 80 | 0.17 | 3.9 | 91 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | <0.1 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | 6 | <0.3 | - | 12 | 20 | 14 | <0.05 | 4.5 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 5 | <0.3 | - | 7.6 | 33 | 42 | 0.07 | 9.2 | 61 | <25 | <25 | <25 | <25 | 110 | <120 | <210 | <100 | <20 | <20 | 74 | 49 | 120 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | <0.1 |
| 09 Dec 2024 | TP116-0.6-0.7 | SE275864 | 2 | <0.3 | - | 1.9 | 18 | 9 | <0.05 | 1.7 | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 6 | <0.3 | - | 13 | 12 | 26 | <0.05 | 5.3 | 38 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | 45 | 57 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | <0.1 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | 3 | <0.3 | - | 11 | 41 | 6 | <0.05 | 63 | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 4 | <0.3 | - | 6.1 | 15 | 24 | <0.05 | 4.0 | 230 | <25 | <25 | <25 | <25 | 200 | 140 | 350 | <100 | <20 | <20 | 130 | 130 | 260 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 | 0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | 7 | <0.3 | - | 13 | 21 | 17 | <0.05 | 3.0 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | 3 | <0.3 | - | 8.9 | 57 | 18 | <0.05 | 120 | 73 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| | | | | Metals | | | | | | | | TRH | | | | | | | TPH | | | | | | BTEXN | | | | | | | | | PAH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Calcium (filtered) | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene |
| | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | 1 | 0.3 | 2 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 20 | 20 | 25 | 25 | 90 | 100 | 100 | 100 | 20 | 20 | 45 | 45 | 50 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Remediation Assessment Criteria | | | | 300 | 90 | | 300 | 17000 | 600 | 80 | 1,200 | 30,000 | 700 | 45 | 120 | 110 | 300 | 2800 | | | | | | | | 0.5 | 85 | 55 | 170 | | | 40 | 170 | | | | | | | 0.7 | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | 6 | <0.3 | - | 13 | 28 | 13 | <0.05 | 13 | 59 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | 1 | <0.3 | - | 7.7 | 50 | 3 | <0.05 | 120 | 49 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | 13 | <0.3 | - | 16 | 18 | 22 | <0.05 | 5.2 | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | 1 | <0.3 | - | 7.2 | 42 | 2 | <0.05 | 110 | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | 6 | <0.3 | - | 14 | 22 | 17 | <0.05 | 16 | 34 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | 5 | <0.3 | - | 11 | 34 | 9 | <0.05 | 53 | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | 7 | <0.3 | - | 14 | 46 | 13 | <0.05 | 9.3 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 2 | <0.3 | - | 6.8 | 43 | 16 | <0.05 | 78 | 47 | <25 | <25 | <25 | <25 | 98 | <120 | <210 | <100 | <20 | <20 | <45 | 96 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | 8 | <0.3 | - | 15 | 12 | 14 | <0.05 | 3.0 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 4 | <0.3 | - | 7.7 | 35 | 19 | <0.05 | 24 | 87 | <25 | <25 | 37 | 37 | 190 | 190 | 410 | 110 | <20 | 29 | 100 | 170 | 300 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | 4 | <0.3 | - | 7.1 | 20 | 10 | <0.05 | 4.7 | 34 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 6 | <0.3 | - | 14 | 16 | 26 | 0.24 | 9.0 | 51 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 | 0.1 | <0.1 | 0.1 | <0.1 |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | 6 | <0.3 | - | 7.3 | 15 | 12 | <0.05 | 2.2 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | 2 | <0.3 | - | 7.0 | 53 | 2 | <0.05 | 110 | 48 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | 6 | <0.3 | - | 10 | 18 | 11 | <0.05 | 3.1 | 21 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | 3 | <0.3 | - | 8.2 | 17 | 9 | <0.05 | 5.3 | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | 5 | <0.3 | - | 9.4 | 41 | 51 | <0.05 | 62 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 10 | 0.3 | - | 16 | 37 | 770 | 0.17 | 11 | 240 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | <0.1 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | 4 | <0.3 | 290 | 13 | 18 | 15 | <0.05 | 3.6 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | 4 | <0.3 | - | 11 | 36 | 16 | <0.05 | 21 | 85 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | 6 | <0.3 | - | 11 | 36 | 18 | 0.06 | 22 | 79 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 5 | <0.3 | - | 9.5 | 15 | 33 | <0.05 | 5.2 | 55 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | 49 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | <0.1 |
| 09 Dec 2024 | QA03-A | 1173417 | 7.0 | <0.4 | - | 14 | 15 | 34 | <0.1 | 6.7 | 56 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 | <50 | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <0.3 | <0.5 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 10 Dec 2024 | QA04 | SE275864 | 9 | <0.3 | - | 14 | 16 | 26 | <0.05 | 7.4 | 30 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | QA04-A | 1173417 | 15 | <0.4 | - | 25 | 32 | 40 | <0.1 | 13 | 52 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 | <50 | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <0.3 | <0.5 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 11 Dec 2024 | QA06 | SE275864 | 3 | <0.3 | - | 7.7 | 18 | 9 | <0.05 | 4.6 | 39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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| | | VOCs | | | Pesticides | MAH | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | | |

| | | | | VOCs | | | Pesticides | MAH | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Toxaphene | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | Mirex | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | Styrene | tert-butylbenzene | Other chlorinated hydrocarbons EPAVic | 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 | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 10 | 1 | 24 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 | 1.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 |
| Remediation Assessment Criteria | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | - | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | - | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | - | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Halogenated Benzenes | | | | | | | | | | Solvents | | | | | | | | | Halogenated Hydrocarbons | | | | |
| | | | | | | | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Allyl chloride | Carbon disulfide | MTBE | Vinyl acetate | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 10 | 5 | 1 | 10 | 0.1 | 0.1 | 0.5 | 0.1 | 10 | 0.1 | 1 | 1 | 5 | 1 |
| Remediation Assessment Criteria | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 | | | |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 | | | |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 | | | |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 | | | |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6-.0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 | | | |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 | | | |

| | | | | | | | Halogenated Benzenes | | | | | | | | | | Solvents | | | | | | | | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Allyl chloride | Carbon disulfide | MTBE | Vinyl acetate | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 10 | 5 | 1 | 10 | 0.1 | 0.1 | 0.5 | 0.1 | 10 | 0.1 | 1 | 1 | 5 | 1 |
| Remediation Assessment Criteria | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | QA03 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | Asbestos | | | | | Mass | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Asbestos (<2mm AF/FA) | Asbestos (<7mm AF/FA) | Asbestos (>2mm <7mm AF/FA) | Bonded Asbestos (ACM >7mm) Estimation | Asbestos fibres | Mass ACM | Mass asbestos in AF | Mass Asbestos in FA & AF | weight of sample |
| | | | %w/w | % | %w/w | %w/w | %w/w | g | g | g | g |
| EQL | | | 0.001 | 0.001 | 0.001 | 0.01 | 0.01 | 0.001 | 0.00001 | 0.00001 | 1 |
| Remeiation Criteria | | | | | | 0.01 | | | | | |
| NEPM 2013 Asbestos Fines Criteria | | | | 0.001 | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 599 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 789 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 764 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 611 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 637 |
| 09 Dec 2024 | TP111-0.4-0.5-ACM | SE275864 | - | - | - | - | Yes | - | - | - | 13.72 |
| 09 Dec 2024 | TP111-0.05-0.1 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 633 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | <0.001 | 0.002 | 0.002 | <0.01 | - | <0.001 | <0.00001 | 0.0107 | 619 |
| 09 Dec 2024 | TP112-0.3-0.4 ACM | SE275864 | - | - | - | - | Yes | - | - | - | 21.47 |
| 09 Dec 2024 | TP112-0.05-0.1 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 631 |
| 09 Dec 2024 | TP113-0.3-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | Yes | 0.403 | <0.00001 | <0.00001 | 663 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 476 |
| 09 Dec 2024 | TP114-0.5-0.6 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 644 |
| 09 Dec 2024 | TP114-1.0-1.1 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 618 |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 383 |
| 09 Dec 2024 | TP115-0.3-0.5-ACM | SE275864 | - | - | - | - | Yes | - | - | - | - |
| 09 Dec 2024 | TP115-0.8-0.9 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 534 |
| 09 Dec 2024 | TP116-0.1-0.2 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 643 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 614 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 565 |
| 09 Dec 2024 | TP119-0.2-0.3 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 625 |
| 09 Dec 2024 | TP119-ACM | SE275864 | - | - | - | - | Yes | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 501 |
| 10 Dec 2024 | TP103-0.6-0.7 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 521 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 932 |
| 10 Dec 2024 | TP105-0.1-0.2 | SE275864 | <0.001 | 0.006 | 0.006 | <0.01 | - | <0.001 | <0.00001 | 0.0385 | 653 |
| 10 Dec 2024 | TP105-0.4-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 698 |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 868 |
| 10 Dec 2024 | TP107-0.1-0.2 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 665 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 602 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 575 |
| 10 Dec 2024 | TP121-0.1-0.3 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 824 |
| 10 Dec 2024 | TP121-0.3-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 570 |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 847 |
| 10 Dec 2024 | TP122-0.1-0.5-ACM | SE275864 | - | - | - | - | Yes | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 728 |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 567 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 530 |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 960 |
| 11 Dec 2024 | TP127-0.4-0.9 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 712 |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 718 |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 694 |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 871 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 788 |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | <0.001 | <0.001 | <0.001 | <0.01 | No | <0.001 | <0.00001 | <0.00001 | 558 |

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|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI |
| SITE LOCATION: | 490 Chapel Road, Bankstown NSW 2200 |
| PROJECT No: | 30013640 |
| CLIENT: | Helath Infrustructure NSW |

| | | | | | WA Sampling Summary | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location Location ID** | **Date measured** | **Bonded ACM description (no. of fragments, size, condition)** | **Bonded ACM result confirmed by laboratory** | **WA Sampling carried out?** | **Weight of 10L sample (kg)** | **ACM observed in 10L sample?** | **Weight of bonded ACM (g) *(Laboratory measured)*** | **Estimated weight of asbestos in ACM (by calc) (A) (kg)** | **Moisture content of soil (%) - *(Laboratory measured)*** | **Estimated dry weight of 10L sample (kg) (B)** | **Estimated Bonded ACM in soil (%w/w)** |
| | | | | | | | | **Note 1** | | **Note 2** | **Note 3** |
| TP101-0.1-0.5 | 9/12/2024 | - | - | Yes | 13.8 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP103-0.1-0.2 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP103-0.6-0.6 | 9/12/2024 | - | - | Yes | 11.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP104-0.2-0.6 | 9/12/2024 | - | - | Yes | 12.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP105-0.1-0.2 | 10/12/2024 | - | - | Yes | 14.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP105-0.4-0.6 | 10/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP106-0.1-0.5 | 9/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP108-0.2-0.5 | 11/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP109-0.2-0.3 | 9/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP110-0.1-0.8 | 9/12/2024 | - | - | Yes | 16.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP111-0.05-0.1 | 9/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP111-0.4-0.5 | 9/12/2024 | One fragment observed in good condition | Yes | Yes | 12.0 | Yes | 13.72 | 0.002058 | 10.0 | 10.909 | 0.019 |
| TP112-0.05-0.1 | 9/12/2024 | - | - | Yes | 11.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP112-0.3-0.4 | 9/12/2024 | 2 fragments observed in good condtion | Yes | Yes | 14.5 | Yes | 21.47 | 0.003221 | 23.7 | 11.722 | 0.027 |
| TP113-0.3-0.4 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP113-0.6-0.7 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP114-0.5-0.6 | 9/12/2024 | - | - | Yes | 16.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP114-1.0-1.1 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP115-0.3-0.4 | 9/12/2024 | 1 Fragment observed in good condition | Yes | Yes | 11.5 | Yes | 3.96 | 0.000594 | 16.3 | 9.888 | 0.006 |
| TP115-0.8-0.9 | 9/12/2024 | - | - | Yes | 12.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP116-0.1-0.2 | 9/12/2024 | - | - | Yes | 14.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP117-0.1-0.2 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP118-0.3-0.4 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP118-0.7-0.8 | 9/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP119-0.2-0.3 | 9/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP119-0.8-0.9 | 9/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP120-0.3-0.4 | 10/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP121-0.1-0.3 | 10/12/2024 | - | - | Yes | 14.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP121-0.3-0.5 | 10/12/2024 | - | - | Yes | 12.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP122-0.1-0.5 | 10/12/2024 | 1 Fragment observed in good condition | Yes | Yes | 14.5 | Yes | 12.50 | 0.001875 | 7.5 | 13.488 | 0.014 |
| TP123-0.1-0.4 | 10/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |

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|---|---|
| PROJECT NAME: | Bankstown New Hospital DSI |
| SITE LOCATION: | 490 Chapel Road, Bankstown NSW 2200 |
| PROJECT No: | 30013640 |
| CLIENT: | Helath Infrustructure NSW |

| | | | | | WA Sampling Summary | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location Location ID** | **Date measured** | **Bonded ACM description (no. of fragments, size, condition)** | **Bonded ACM result confirmed by laboratory** | **WA Sampling carried out?** | **Weight of 10L sample (kg)** | **ACM observed in 10L sample?** | **Weight of bonded ACM (g) *(Laboratory measured)*** | **Estimated weight of asbestos in ACM (by calc) (A) (kg)** | **Moisture content of soil (%) - *(Laboratory measured)*** | **Estimated dry weight of 10L sample (kg) (B)** | **Estimated Bonded ACM in soil (%w/w)** |
| | | | | | | | | **Note 1** | | **Note 2** | **Note 3** |
| TP125-0.1-0.3 | 10/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP126-0.1-0.4 | 10/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP127-0.1-0.3 | 11/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP127-0.4-0.9 | 11/12/2024 | - | - | Yes | 13.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP128-0.1-0.4 | 11/12/2024 | - | - | Yes | 15.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP129-0.1-0.5 | 11/12/2024 | - | - | Yes | 13.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP130-0.1-0.6 | 11/12/2024 | - | - | Yes | 15.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP131-0.1-0.5 | 11/12/2024 | - | - | Yes | 12.5 | Not Observed | N/A | N/A | N/A | N/A | N/A |
| TP132-0.2-0.3 | 11/12/2024 | - | - | Yes | 14.0 | Not Observed | N/A | N/A | N/A | N/A | N/A |

**NOTES:**
1. Estimated weight of asbestos in ACM asssumed to be 15% of weight of ACM fragment as per NEPM 1999
2. Dry Weight = Weight of moist soil/(moisture content + 1)
3. Estimated bonded ACM in soil (%w/w) = **(A/1000)** / **(B)** x 100 (rounded to nearest 0.001%)

Exceeds bonded ACM remediation criteria (0.01%)

| | Field Results | | | | | | | Metals | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pH | Electrical Conductivity | Redox | DO | Temperature | Standing Water Depth | Observations | Arsenic (filtered) | Cadmium (filtered) | Chromium (III+VI) (filtered) | Copper (filtered) | Lead (filtered) | Mercury (filtered) | Nickel (filtered) | Zinc (filtered) | C6-C10 Fraction (F1) |
| | - | (S/cm) | mV | mg/L | - | m(bTOC) | - | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | µg/L |
| EQL | | | | | | | | 0.001 | 0.0001 | 0.001 | 0.001 | 0.001 | 0.0001 | 0.001 | 0.005 | 50 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | 0.0055 | | 0.0013 | 0.0044 | 0.0004 | 0.07 | 0.015 | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | 0.0007 | | | | 0.0001 | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | 1 | | | | 3 | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | 0.1 | 0.02 | | 20 | 0.1 | 0.01 | 0.2 | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | 0.1 | 0.01 | 0.1 | 0.2 | 2 | 0.002 | 0.2 | 2 | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | 2 | 0.05 | 1 | 5 | 5 | 0.002 | 2 | 5 | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | 0.5 | 0.01 | 1 | 0.4 | 0.1 | 0.002 | 1 | 20 | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Jan 2025 | BH101 | SE276667 | 7.09 | 12640 | -58.9 | 5.2 | 22.5 | 9.06 | No Colour, no sheen, no odour | 0.009 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.045 | <0.005 | <50 |
| 09 Jan 2025 | BH102 | SE276667 | 6.74 | 14283 | 28.4 | 6.1 | 20.1 | 7.44 | Light brown, no sheen, no odour | <0.001 | <0.0001 | <0.001 | 0.006 | <0.001 | <0.0001 | 0.014 | 0.1 | <50 |
| 09 Jan 2025 | BH103 | SE276667 | 6.89 | 13282 | -71.7 | 4.2 | 22.8 | 8.06 | No Colour, no sheen, no odour | 0.003 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.093 | 0.025 | <50 |
| 09 Jan 2025 | QA01 | SE276667 | - | - | - | - | - | | - | 0.009 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | 0.043 | <0.005 | <50 |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | TRH | | | | | | TPH | | | | | BTEXN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) |
| | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | mg/L | mg/L | mg/L | µg/L |
| EQL | | | 50 | 60 | 60 | 500 | 500 | 320 | 200 | 40 | 50 | 200 | 200 | 0.0005 | 0.0005 | 0.0005 | 0.00002 | 1 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | 0.7 | 0.18 | 0.08 | 0.07 | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | 0.025 | 0.003 | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | | | | | | | 0.01 | 8 | 3 | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | |
| 09 Jan 2025 | BH101 | SE276667 | <50 | <60 | <60 | <500 | <500 | <320 | <200 | <40 | <50 | <200 | <200 | <0.0005 | <0.0005 | <0.0005 | 0.00005 | <1 |
| 09 Jan 2025 | BH102 | SE276667 | <50 | <60 | <60 | <500 | <500 | <320 | <200 | <40 | <50 | <200 | <200 | <0.0005 | <0.0005 | <0.0005 | 0.00004 | <1 |
| 09 Jan 2025 | BH103 | SE276667 | <50 | <60 | <60 | <500 | <500 | <320 | <200 | <40 | <50 | <200 | <200 | <0.0005 | <0.0005 | <0.0005 | <0.00002 | <1 |
| 09 Jan 2025 | QA01 | SE276667 | <50 | - | - | - | - | - | - | <40 | - | - | - | <0.0005 | <0.0005 | <0.0005 | - | <1 |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
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HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | | PAH | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+k)fluoranthene | Benzo(g,h,i)perylene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene |
| | mg/L | µg/L | mg/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 | 0.0005 | 1.5 | 0.0005 | 3 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | 0.07 | | | | | | 0.4 | | 0.2 | | | | | 1.4 |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | 1 |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | 20 | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | 6,000 | | | | | | | | | 0.1 | | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | |
| 09 Jan 2025 | BH101 | SE276667 | <0.0005 | <1.5 | <0.0005 | <3 | 0.03 | 0.03 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.01 | <0.01 |
| 09 Jan 2025 | BH102 | SE276667 | <0.0005 | <1.5 | <0.0005 | <3 | 0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.01 | <0.01 |
| 09 Jan 2025 | BH103 | SE276667 | <0.0005 | <1.5 | <0.0005 | <3 | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.01 | <0.01 |
| 09 Jan 2025 | QA01 | SE276667 | <0.0005 | <1.5 | <0.0005 | <3 | - | - | - | - | - | - | - | - | - | - | - | - |

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HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | | | | | | NA | | MAH | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fluorene | Indeno(1,2,3-c,d)pyrene | Phenanthrene | Pyrene | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | PAHs (Vic EPA List) | Sum of US EPA PFAS (PFOS+PFOA) | Total Hardness as CaCO3 (filtered) | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene |
| | | | µg/L | µg/L | µg/L | µg/L | TEQ (µg/L) | µg/L | µg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | | | 0.01 | 0.01 | 0.01 | 0.01 | 0.012 | 0.1 | 0.1 | 0.0002 | 5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | 2 | | | | | | | | | 30 | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | 0.6 | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | |
| 09 Jan 2025 | BH101 | SE276667 | <0.01 | <0.01 | 0.01 | <0.01 | <0.012 | 0.1 | <0.1 | <0.0002 | 1,200 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | BH102 | SE276667 | <0.01 | <0.01 | <0.01 | <0.01 | <0.012 | <0.1 | <0.1 | 0.0043 | 1,700 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | BH103 | SE276667 | <0.01 | <0.01 | 0.01 | <0.01 | <0.012 | <0.1 | <0.1 | <0.0002 | 1,600 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | QA01 | SE276667 | - | - | - | - | - | - | - | - | 1,200 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
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NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
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HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | Perfluoroalkyl Sulfonamides | | | | | | | PFAS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Styrene | tert-butylbenzene | Perfluorooctane sulfonamide (FOSA) | N-Methyl perfluorooctane sulfonamide (MeFOSA) | N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA) | N-methyl perfluorooctane sulfonamidoethanol (MeFOSE) | N-Ethyl perfluorooctane sulfonamide (EtFOSA) | N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) | N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE) | Perfluorobutanesulfonate | Perfluorododecane sulfonate (PFDoS) | Perfluorononanesulfonic acid (PFNS) | Sum of PFHxS and PFOS | Sum of enHealth PFAS (PFHxS + PFOS + PFOA) | Perfluorobutanoic acid (PFBA) | Perfluoropentanoic acid (PFPeA) |
| | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | 0.5 | 0.5 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.001 | 0.002 | 0.000001 | 0.0002 | 0.0002 | 0.005 | 0.001 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | 2 | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | 4 | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | 300 | | | | | | | | | | | | 0.7 | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | |
| 09 Jan 2025 | BH101 | SE276667 | <0.5 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | <0.0002 | <0.0002 | <0.005 | <0.001 |
| 09 Jan 2025 | BH102 | SE276667 | <0.5 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | 0.0043 | 0.0043 | <0.005 | <0.001 |
| 09 Jan 2025 | BH103 | SE276667 | <0.5 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.001 | <0.002 | <0.000001 | <0.0002 | <0.0002 | <0.005 | 0.004 |
| 09 Jan 2025 | QA01 | SE276667 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
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NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
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| | Perfluoroalkane Carboxylic Acids | | | | | | | | | Perfluoroalkane Sulfonic Acids | | | | | | (n:2) Fluor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Perfluorohexanoic acid (PFHxA) | Perfluoroheptanoic acid (PFHpA) | Perfluorooctanoic acid (PFOA) | Perfluorononanoic acid (PFNA) | Perfluorodecanoic acid (PFDA) | Perfluorododecanoic acid (PFDoDA) | Perfluorotetradecanoic acid (PFTeDA) | Perfluorotridecanoic acid (PFTrDA) | Perfluoroundecanoic acid (PFUnDA) | Perfluoropentane sulfonic acid (PFPeS) | Perfluoropropanesulfonic acid (PFPrS) | Perfluorohexane sulfonic acid (PFHxS) | Perfluoroheptane sulfonic acid (PFHpS) | Perfluorooctane sulfonic acid (PFOS) | Perfluorodecane sulfonic acid (PFDS) | 4:2 Fluorotelomer sulfonic acid (4:2 FTS) |
| | 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 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.0002 | 0.001 | 0.002 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | 10 | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | 5.6 | | | | | | | | | 0.7 | | 0.7 | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | 19 | | | | | | | | | | | 0.0023 | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Jan 2025 | BH101 | SE276667 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.0002 | <0.001 | <0.002 |
| 09 Jan 2025 | BH102 | SE276667 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0043 | <0.001 | <0.002 |
| 09 Jan 2025 | BH103 | SE276667 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.0002 | <0.001 | <0.002 |
| 09 Jan 2025 | QA01 | SE276667 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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| | otelomer Sulfonic Acids | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane |
| | 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 | 0.002 | 0.002 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | 270 | 400 | 1,900 | | 700 | | | | 1,900 | 900 | 1,100 | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | | 300 | | | | 30 | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Jan 2025 | BH101 | SE276667 | <0.002 | <0.002 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | BH102 | SE276667 | <0.002 | <0.002 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | BH103 | SE276667 | <0.002 | <0.002 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | QA01 | SE276667 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

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| | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene |
| | 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 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | 240 | | | 770 | | | | | 4,000 | | 330 | 70 | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | 30 | | | | | | | | 40 | 7 | | 500 | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Jan 2025 | BH101 | SE276667 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | BH102 | SE276667 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | BH103 | SE276667 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09 Jan 2025 | QA01 | SE276667 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | Halogenated Benzenes | | | | | | | | | Solvents | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Allyl chloride |
| | 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 | mg/L | µg/L | mg/L |
| EQL | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 10 | 5 | 5 | 0.01 | 0.5 | 0.002 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | 100 | | 80 | | | | | | | 55 | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | 1 | 20 | 0.3 | | | | 10 | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | 3 | | | 15,000 | | 400 | | | | 3,000 | | | | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | |
| 09 Jan 2025 | BH101 | SE276667 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 | <0.002 |
| 09 Jan 2025 | BH102 | SE276667 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 | <0.002 |
| 09 Jan 2025 | BH103 | SE276667 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 | <0.002 |
| 09 Jan 2025 | QA01 | SE276667 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | <5 | <0.01 | <0.5 | <0.002 |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | VOCs | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Carbon disulfide | MTBE | Vinyl acetate | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | µg/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| EQL | 2 | 0.0005 | 10 | 0.1 | 1 | 10 | 0.5 | 10 | 5 | 5 | 1 |
| ANZG (2018) Marine Water 95% LOSP Toxicant DGVs | | | | | | | | | | | |
| ANZG (2018) Marine Water 99% LOSP Toxicant DGVs (Bioaccumulant contaminants) | | | | | | | | | | | |
| Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic | | | | | | | | | | | |
| NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health | | | | | | | 10 | 10 | | | |
| ANZECC 2000 Irrigation Long Term Trigger Values | | | | | | | | | | | |
| ANZECC 2000 Irrigation Short Term Trigger Values | | | | | | | | | | | |
| ANZECC 2000 Livestock DW Low Risk Trigger Values | | | | | | | | | | | |
| PFAS NEMP 2020 Interim Marine 99% | | | | | | | | | | | |
| Date / Field ID / Lab Report Number | | | | | | | | | | | |
| 09 Jan 2025 BH101 SE276667 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| 09 Jan 2025 BH102 SE276667 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| 09 Jan 2025 BH103 SE276667 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |
| 09 Jan 2025 QA01 SE276667 | <2 | <0.0005 | <10 | <0.1 | <1 | <10 | <0.5 | <10 | <5 | <5 | <1 |

Environmental Standards
ANZG, March 2021, ANZG (2018) Marine Water 95% LOSP Toxicant DGVs
National Health and Medical Research Council, 2019, Guidance on Per and Polyfluoroalkyl (PFAS) in Recreational Water
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Aesthetic
NHMRC, February 2008, NHMRC (2011) Guidelines for Managing Risk in Recreational Water - Health
ANZECC 2000 Irrigation Long Term Trigger Values
ANZECC 2000 Irrigation Short Term Trigger Values
ANZECC 2000 Livestock DW Low Risk Trigger Values
HEPA, January 2020, PFAS NEMP 2020 Interim Marine 95%

| | | | | Metals | | | | | | | | | | | | | | TRH | | | | | | | TPH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Arsenic (filtered) | Cadmium | Calcium (filtered) | Chromium (total)[a] | Copper | Iron | Lead | Lead (TCLP) | Magnesium (filtered) | Mercury | Nickel | Nickel (filtered) | Potassium (filtered) | Zinc | 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) | C37-C40 Fraction | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction |
| | | | | mg/kg | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | 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 |
| EQL | | | | 1 | 0.02 | 0.3 | 2 | 0.5 | 0.5 | 50 | 1 | 0.02 | 2 | 0.05 | 0.5 | 0.005 | 2 | 2 | 20 | 20 | 25 | 25 | 90 | 100 | 100 | 100 | 20 | 20 | 45 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | 100 | | 20 | | | | | 100 | | | 4 | 40 | | | | | | | | | | | | 650 | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | 500 | | 100 | | | | | 1,500 | | | 50 | 1,050 | | | | | | | | | | | | 650 | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | 5 | | | | | | | 5 | | | | 2 | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | 400 | | 80 | | | | | 400 | | | 16 | 160 | | | | | | | | | | | | 2,600 | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | 2,000 | | 400 | | | | | 6,000 | | | 200 | 4,200 | | | | | | | | | | | | 2,600 | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | 20 | | | | | | | 20 | | | | 8 | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | | 180 | 0.072 | 1.5 | - | 9.2 | 33 | - | 45 | - | - | 0.13 | 29 | - | - | 89 | <25 | <25 | <25 | <25 | 100 | <120 | <210 | <100 | <20 | <20 | 46 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | | 6 | - | <0.3 | - | 12 | 14 | - | 26 | - | - | <0.05 | 7.7 | - | - | 59 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | | 1 | - | <0.3 | - | 5.8 | 55 | - | 2 | - | - | <0.05 | 74 | 0.14 | - | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | | 1 | - | <0.3 | - | 6.4 | 51 | - | 2 | - | - | <0.05 | 37 | - | - | 27 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | | 97 | - | 0.8 | - | 11 | 15 | - | 28 | - | - | 0.06 | 12 | - | - | 45 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | | 8 | - | <0.3 | - | 15 | 16 | - | 15 | - | - | <0.05 | 3.5 | - | - | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | | 31 | - | <0.3 | - | 13 | 21 | - | 26 | - | - | 0.07 | 17 | - | - | 50 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | | 7 | - | <0.3 | - | 17 | 19 | - | 14 | - | - | <0.05 | 7.0 | - | - | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | | 5 | - | <0.3 | - | 7.6 | 29 | - | 11 | - | - | 0.09 | 26 | - | - | 52 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | | 2 | - | <0.3 | - | 12 | 26 | - | 15 | - | - | <0.05 | 8.9 | - | - | 35 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | | 13 | - | <0.3 | - | 20 | 12 | - | 18 | - | - | <0.05 | 5.7 | - | - | 20 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | | 7 | - | <0.3 | 5,700 | 21 | 30 | 19,000 | 130 | 0.13 | 91 | 0.20 | 18 | - | 150 | 160 | <25 | <25 | <25 | <25 | 130 | <120 | <210 | <100 | <20 | <20 | 86 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | | 5 | - | <0.3 | - | 12 | 25 | - | 86 | - | - | 0.17 | 13 | - | - | 130 | <25 | <25 | <25 | <25 | 92 | <120 | <210 | <100 | <20 | <20 | 57 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | | 5 | - | <0.3 | - | 7.8 | 31 | - | 80 | - | - | 0.15 | 12 | - | - | 220 | <25 | <25 | <25 | <25 | 91 | <120 | <210 | <100 | <20 | <20 | 56 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | | 9 | - | <0.3 | - | 19 | 15 | - | 21 | - | - | <0.05 | 5.4 | - | - | 32 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | | 3 | - | <0.3 | 1,300 | 5.2 | 27 | 8,000 | 80 | - | 100 | 0.17 | 3.9 | - | 190 | 91 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | | 6 | - | <0.3 | - | 12 | 20 | - | 14 | - | - | <0.05 | 4.5 | - | - | 28 | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | | 5 | - | <0.3 | - | 7.6 | 33 | - | 42 | - | - | 0.07 | 9.2 | - | - | 61 | <25 | <25 | <25 | <25 | 110 | <120 | <210 | <100 | <20 | <20 | 74 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | | 2 | - | <0.3 | - | 1.9 | 18 | - | 9 | - | - | <0.05 | 1.7 | - | - | 23 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | | 6 | - | <0.3 | - | 13 | 12 | - | 26 | - | - | <0.05 | 5.3 | - | - | 38 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | 45 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | | 3 | - | <0.3 | - | 11 | 41 | - | 6 | - | - | <0.05 | 63 | 0.12 | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | | 4 | - | <0.3 | - | 6.1 | 15 | - | 24 | - | - | <0.05 | 4.0 | - | - | 230 | <25 | <25 | <25 | <25 | 200 | 140 | 350 | <100 | <20 | <20 | 130 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | | 7 | - | <0.3 | - | 13 | 21 | - | 17 | - | - | <0.05 | 3.0 | - | - | 26 | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | | 3 | - | <0.3 | - | 8.9 | 57 | - | 18 | - | - | <0.05 | 120 | 0.22 | - | 73 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | | 6 | - | <0.3 | - | 13 | 28 | - | 13 | - | - | <0.05 | 13 | - | - | 59 | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | | 1 | - | <0.3 | - | 7.7 | 50 | - | 3 | - | - | <0.05 | 120 | 0.12 | - | 49 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | | 13 | - | <0.3 | - | 16 | 18 | - | 22 | - | - | <0.05 | 5.2 | - | - | 37 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | | 1 | - | <0.3 | - | 7.2 | 42 | - | 2 | - | - | <0.05 | 110 | - | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | | 6 | - | <0.3 | - | 14 | 22 | - | 17 | - | - | <0.05 | 16 | - | - | 34 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | | 5 | - | <0.3 | - | 11 | 34 | - | 9 | - | - | <0.05 | 53 | - | - | 42 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | | 7 | - | <0.3 | - | 14 | 46 | - | 13 | - | - | <0.05 | 9.3 | - | - | 71 | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | | 2 | - | <0.3 | - | 6.8 | 43 | - | 16 | - | - | <0.05 | 78 | 0.11 | - | 47 | <25 | <25 | <25 | <25 | 98 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | | 8 | - | <0.3 | - | 15 | 12 | - | 14 | - | - | <0.05 | 3.0 | - | - | 17 | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | | 4 | - | <0.3 | - | 7.7 | 35 | - | 19 | - | - | <0.05 | 24 | - | - | 87 | <25 | <25 | 37 | 37 | 190 | 190 | 410 | 110 | <20 | 29 | 100 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | | 4 | - | <0.3 | - | 7.1 | 20 | - | 10 | - | - | <0.05 | 4.7 | - | - | 34 | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | | 6 | - | <0.3 | - | 14 | 16 | - | 26 | - | - | 0.24 | 9.0 | - | - | 51 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | | 6 | - | <0.3 | - | 7.3 | 15 | - | 12 | - | - | <0.05 | 2.2 | - | - | 20 | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | | 2 | - | <0.3 | - | 7.0 | 53 | - | 2 | - | - | <0.05 | 110 | 0.19 | - | 48 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | | 6 | - | <0.3 | - | 10 | 18 | - | 11 | - | - | <0.05 | 3.1 | - | - | 21 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | | 3 | - | <0.3 | - | 8.2 | 17 | - | 9 | - | - | <0.05 | 5.3 | - | - | 43 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | | 5 | - | <0.3 | - | 9.4 | 41 | - | 51 | - | - | <0.05 | 62 | - | - | 80 | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | | 10 | - | 0.3 | - | 16 | 37 | - | 770 | 0.18 | - | 0.17 | 11 | <0.005 | - | 240 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | | 4 | - | <0.3 | 290 | 13 | 18 | 38,000 | 15 | - | 730 | <0.05 | 3.6 | - | 150 | 31 | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | | 4 | - | <0.3 | - | 11 | 36 | - | 16 | - | - | <0.05 | 21 | - | - | 85 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | | 6 | - | <0.3 | - | 11 | 36 | - | 18 | - | - | 0.06 | 22 | - | - | 79 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | QA03 | SE275864 | | 5 | - | <0.3 | - | 9.5 | 15 | - | 33 | - | - | <0.05 | 5.2 | - | - | 55 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 09 Dec 2024 | QA03-A | 1173417 | | 7.0 | - | <0.4 | - | 14 | 15 | - | 34 | - | - | <0.1 | 6.7 | - | - | 56 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 | <50 |
| 10 Dec 2024 | QA04 | SE275864 | | 9 | - | <0.3 | - | 14 | 16 | - | 26 | - | - | <0.05 | 7.4 | - | - | 30 | <25 | <25 | <25 | <25 | <90 | <120 | <210 | <100 | <20 | <20 | <45 |
| 10 Dec 2024 | QA04-A | 1173417 | | 15 | - | <0.4 | - | 25 | 32 | - | 40 | - | - | <0.1 | 13 | - | - | 52 | <20 | <20 | <50 | <50 | <100 | <100 | <100 | - | <20 | <20 | <50 |
| 11 Dec 2024 | QA06 | SE275864 | | 3 | - | <0.3 | - | 7.7 | 18 | - | 9 | - | - | <0.05 | 4.6 | - | - | 39 | - | - | - | - | - | - | - | - | - | - | - |

Notes:

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

Environmental Standards

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | BTEXN | | | | | | | | | PAH | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C29-C36 Fraction | C10-C36 Fraction (Sum) | Benzene | Toluene | Ethylbenzene | Naphthalene | Xylene (m & p) | Xylene (o) | Xylene Total | Naphthalene (VOC) | Total BTEX | 1-Methylnaphthalene | 2-methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b+j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Phenanthrene |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 45 | 50 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | 10,000 | 10 | 288 | 600 | | | | 1,000 | | | | | | | | | 0.8 | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | 10,000 | 18 | 518 | 1,080 | | | | 1,800 | | | | | | | | | 10 | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | 40,000 | 40 | 1,152 | 2,400 | | | | 4,000 | | | | | | | | | 3.2 | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | 40,000 | 72 | 2,073 | 4,320 | | | | 7,200 | | | | | | | | | 23 | | | | | | | | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 97 | 140 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 78 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 67 | 150 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | 0.2 | 0.3 | 1.0 | 0.9 | 0.7 | 0.5 | 0.7 | 0.9 | 0.1 | 1.8 | <0.1 | 0.5 | 1.3 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 53 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | <0.1 | 0.6 | <0.1 | 0.3 | 0.3 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 51 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | <0.1 | 0.6 | <0.1 | 0.2 | 0.3 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | <0.1 | 0.5 | <0.1 | 0.2 | 0.2 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 49 | 120 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | <0.1 | 0.3 | <0.1 | 0.1 | 0.1 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 57 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | <0.1 | 0.5 | <0.1 | 0.2 | 0.3 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 130 | 260 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 | 0.1 | <0.1 | <0.1 | 0.1 | <0.1 | 0.1 | <0.1 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | <0.1 | <0.1 | <0.1 | - | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | 96 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | 170 | 300 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 0.1 | 0.1 | <0.1 | 0.1 | <0.1 | 0.3 | <0.1 | 0.1 | 0.2 |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | <0.1 | 0.9 | <0.1 | 0.3 | 0.5 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 49 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | <0.1 | 0.4 | <0.1 | 0.2 | 0.2 |
| 09 Dec 2024 | QA03-A | 1173417 | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <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 |
| 10 Dec 2024 | QA04 | SE275864 | <45 | <110 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | <0.1 | <0.6 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | QA04-A | 1173417 | <50 | <50 | <0.1 | <0.1 | <0.1 | <0.5 | <0.2 | <0.1 | <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 |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

| | |
|---|---|
| ND | Non detect at reporting limit |
| [a] | Criteria for chromium is basd on Chromium VI |
| [b] | Guideline is to total of 'scheduled chemicals' which include some OCP |

Environmental Standards

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | | | | | | PCBs | | | | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Pyrene | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | PAHs (Sum of total) | PAHs (Sum of positives) | 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 | Chlordane (dis) | Chlordane (technical) | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endosulfan I |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.2 | 0.3 | 0.2 | 0.5 | 0.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | 200 | | | | | | | | | | | | | < 50 | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | 200 | | | | | | | | | | | | | < 50 | | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | 800 | | | | | | | | | | | | | < 50 | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | 800 | | | | | | | | | | | | | < 50 | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | 0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | 0.2 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | 1.9 | 1.4 | 1.4 | 1.4 | 11 | 11 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.2 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | 0.7 | 0.6 | 0.7 | 0.6 | 3.9 | 3.9 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.1 | <0.1 |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | 0.6 | 0.5 | 0.6 | 0.5 | 3.6 | 3.6 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.1 | <0.1 |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | 0.5 | 0.5 | 0.5 | 0.4 | 3.1 | 3.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | 0.4 | 0.4 | 0.4 | 0.3 | 2.1 | 2.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | 0.5 | 0.4 | 0.4 | 0.3 | 2.5 | 2.5 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | 0.1 | 0.2 | <0.3 | <0.2 | 0.8 | 0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | 0.3 | 0.2 | <0.3 | <0.2 | 1.4 | 1.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | 0.8 | 0.6 | 0.6 | 0.5 | 4.4 | 4.4 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | 0.4 | 0.3 | 0.3 | 0.2 | 2.1 | 2.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 09 Dec 2024 | QA03-A | 1173417 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 10 Dec 2024 | QA04 | SE275864 | <0.1 | <0.2 | <0.3 | <0.2 | <0.8 | <0.8 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| 10 Dec 2024 | QA04-A | 1173417 | <0.5 | 0.6 | 1.2 | <0.5 | <0.5 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

Environmental Standards

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | VOCs | | | Pesticides | MAH | | | | | | | | | | | | |
| | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Methoxychlor | Toxaphene | Total OCPb | 2-Nitropropane | trans-1,4-Dichloro-2-butene | Total VOCs | Mirex | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | Isopropylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | Styrene | tert-butylbenzene | Other chlorinated hydrocarbons EPAVic | Chlorinated hydrocarbons EPAVic | 1,1,1,2-tetrachloroethane |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | | 10 | 1 | 24 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 | 1.8 | 0.1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | | | | | | | | | 50[b] | | | | | | | | | | | | 60 | | | | 200 |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | | | | | | | | | 50[b] | | | | | | | | | | | | 108 | | | | 360 |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | | | | | | | | | 50[b] | | | | | | | | | | | | 240 | | | | 800 |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | | | | | | | | | 50[b] | | | | | | | | | | | | 432 | | | | 1,440 |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | <10 | <1 | <24 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.4 | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | 0.2 | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | <10 | <1 | <24 | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | <10 | <1 | <24 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1.8 | <1.8 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | ND | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | ND | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

Environmental Standards

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,1-dichloroethene | 1,1-dichloropropene | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane | Bromodichloromethane | Bromoform | Carbon tetrachloride | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Dibromomethane | Dichloromethane | Hexachlorobutadiene | Trichloroethene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | | | 600 | 26 | 24 | | 14 | | | | 10 | | | | | | | 10 | | | 120 | | | | | 172 | | 10 | 14 | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | | | 1,080 | 46.8 | 43.2 | | 25 | | | | 18 | | | | | | | 18 | | | 126 | | | | | 310 | | 18 | 25.2 | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | | | 2,400 | 104 | 96 | | 56 | | | | 40 | | | | | | | 40 | | | 480 | | | | | 688 | | 40 | 56 | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | | | 4,320 | 187.2 | 172.8 | | 100 | | | | 72 | | | | | | | 72 | | | 864 | | | | | 1,240 | | 72 | 100.8 | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | 0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 09 Dec 2024 | QA03 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

Environmental Standards

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

| | | Halogenated Benzenes | | | | | | | | | | Solvents | | | | | | | | | Halogenated Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Vinyl chloride | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | 2-chlorotoluene | 4-chlorotoluene | Bromobenzene | Chlorobenzene | Hexachlorobenzene | Methyl Ethyl Ketone | 2-hexanone (MBK) | 4-Methyl-2-pentanone | Acetone | Acrylonitrile | Allyl chloride | Carbon disulfide | MTBE | Vinyl acetate | 1,2-dibromoethane | Bromomethane | Dichlorodifluoromethane | Iodomethane | Trichlorofluoromethane |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | 0.1 | 0.1 | 0.1 | 0.05 | 10 | 5 | 1 | 10 | 0.1 | 0.1 | 0.5 | 0.1 | 10 | 0.1 | 1 | 1 | 5 | 1 |
| NSW 2014 General Solid Waste CT1 (No Leaching) | 4 | | | 86 | | 150 | | | | 2,000 | | 4,000 | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste SCC1 (with leached) | 7.2 | | | 155 | | 270 | | | | 3,600 | | 7,200 | | | | | | | | | | | | | |
| NSW 2014 General Solid Waste TCLP1 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste CT2 (No Leaching) | 16 | | | 344 | | 600 | | | | 8,000 | | 16,000 | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste SCC2 (with leached) | 28.8 | | | 620 | | 1,080 | | | | 14,400 | | 28,800 | | | | | | | | | | | | | |
| NSW 2014 Restricted Solid Waste TCLP2 (leached) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Field ID | Lab Report Number | | | | | | | | | | | | | | | | | | | | | | | |
| 09 Dec 2024 | TP101-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP102-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP103-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP104-0.2-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP106-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP107-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP107-1.1-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.2-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP108-0.6-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP109-0.2-0.3 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | TP110-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP110-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP111-0.4-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | TP112-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-0.6-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP113-1.0-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP114-2.1-2.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP115-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP116-0.6--0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP117-0.1-0.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP118-0.3-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | TP119-0.8-0.9 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP120-0.3-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP121-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP122-0.1-0.5 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP122-0.8-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP123-0.1-0.4 | SE275864 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 10 Dec 2024 | TP123-0.4-0.7 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.1-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP125-0.4-0.8 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.1-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | TP126-0.4-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.1-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP127-0.9-1.2 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.1-0.4 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP128-0.4-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP129-0.5-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.1-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP130-0.6-1.0 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.1-0.5 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP131-0.5-1.1 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.2-0.3 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | TP132-0.5-0.6 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 Dec 2024 | BH102-1.4-1.6 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 19 Dec 2024 | BH102-3.0-3.2 | SE276220 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <10 | <5 | <1 | <10 | <0.1 | <0.1 | <0.5 | <0.1 | <10 | <0.1 | <1 | <1 | <5 | <1 |
| 09 Dec 2024 | QA03 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 09 Dec 2024 | QA03-A | 1173417 | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04 | SE275864 | - | - | - | - | - | - | - | - | - | - | <0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 Dec 2024 | QA04-A | 1173417 | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 Dec 2024 | QA06 | SE275864 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

ND Non detect at reporting limit

[a] Criteria for chromium is basd on Chromium VI

[b] Guideline is to total of 'scheduled chemicals' which include some OCP

Environmental Standards

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 General Solid Waste TCLP1 (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)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Appendix D

# Site Photographs

# Field Site Notes

## Inspection Details

| | |
|---|---|
| **Inspection Name** | Bankstown New Hospital |
| **Inspection ID** | Site Inspection |
| **Inspector** | |
| **Date** | 2024-11-18 |
| **Time** | 09:04 |
| **General Photos** | |

## General Comments

## Notes

| Location | Reference | Comment | Photos |
|---|---|---|---|
| | | Gate 3 observation to the North of the Site | 1 - 2 |
| -33.73649, 151.03127 | | Northern carpark, north of Building D | 3 - 8 |
| -33.73683, 151.03219 | Retaining wall, north of Building D | | 9 - 14 |
| -33.73687, 151.03199 | | Building D | 15 - 16 |
| -33.73831, 151.03467 | | Carpark to the south of Building D | 17 - 20 |
| | | Garden, seating and courtyard area to the east of Building C | 21 - 35 |
| | | Car ramp to the northwest of Building C, connecting the staff car parks. | 36 - 40 |
| | | Retaking wall and vegetation fill to the north of Building C | 41 - 43 |
| | | Carpark and grassed seating area to the west of Building C | 44 - 51 |
| | | Retaining wall to the north of Building C | 52 |
| | | Staff carpark to the west of Building A | 53 |
| | | Footbridge connecting Building C and Building A | 54 |
| | | Entrance via Gate N | 55 - 56 |
| | | Central grassed seating area | 57 - 59 |
| | | Car park to the west of Building J | 60 - 63 |
| | | Energy Australia transformer | 64 - 65 |
| | | Garbage area to the west of Building A | 66 - 68 |
| | | Building G | 69 - 70 |
| -33.79604, 151.17786 | | Building J and E, with courtyard within the centre of the buildings | 71 - 77 |
| | | Garden area to the east of Building E | 78 - 79 |
| | | Backup generator and fuel storage to the east of Building E | 80 - 82 |
| -33.78962, 151.18063 | | Storage and delivery receiving area, former maintenance storage area | 83 - 86 |
| -33.79899, 151.18128 | | Foot entrance into the TAFE | 87 |
| -33.79782, 151.18091 | | Student carpark to the south of the Site | 88 - 95 |

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.79991, 151.18098 | | Childcare centre (Building L) to the southeast of the Site | 96 - 98 |
| -33.81115, 151.18169 | | Sustainable Salons bins within Building D, used to dispose of unused bleaches and dyes | 99 - 100 |
| | | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D | 101 - 109 |
| | | Cleaning products within the cleaners room within Building D | 110 - 112 |

| Photo 1 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:46:58 am |
| **Location** | |
| **Reference** | |
| **Comment** | Gate 3 observation to the North of the Site |

| Photo 2 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:04 am |
| **Location** | |
| **Reference** | |
| **Comment** | Gate 3 observation to the North of the Site |

| Photo 3 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:06 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 4 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:29 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

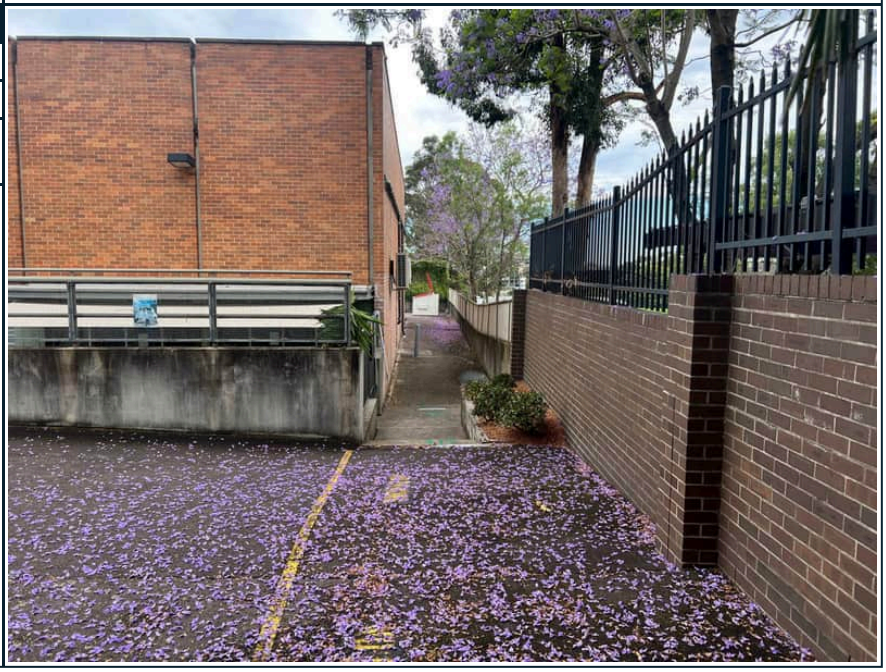
| Photo 5 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:53 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 6 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:48:17 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

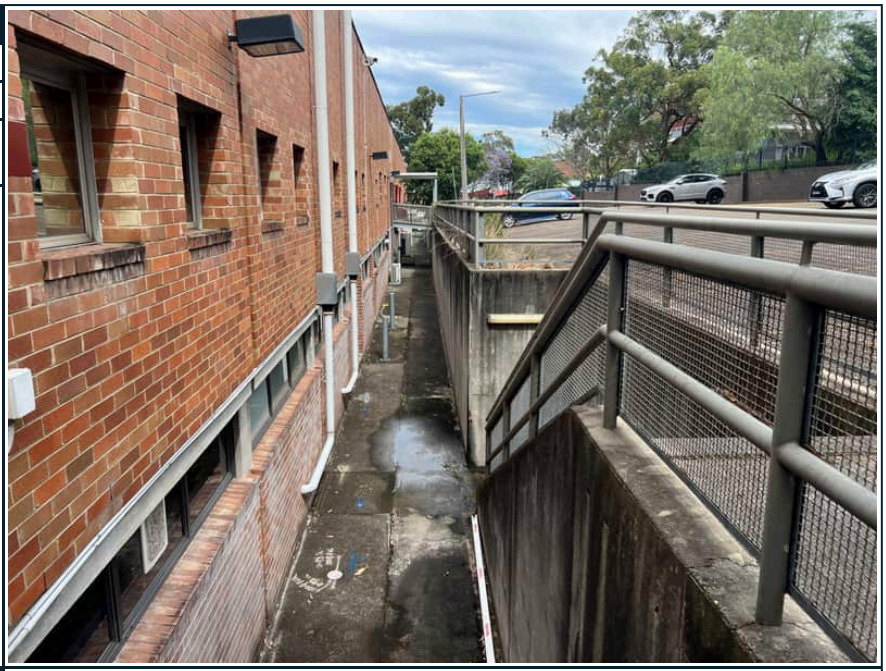
| Photo 7 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:55 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 8 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:47:17 am |
| **Location** | -33.73649, 151.03127 |
| **Reference** | |
| **Comment** | Northern carpark, north of Building D |

| Photo 9 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:48:31 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

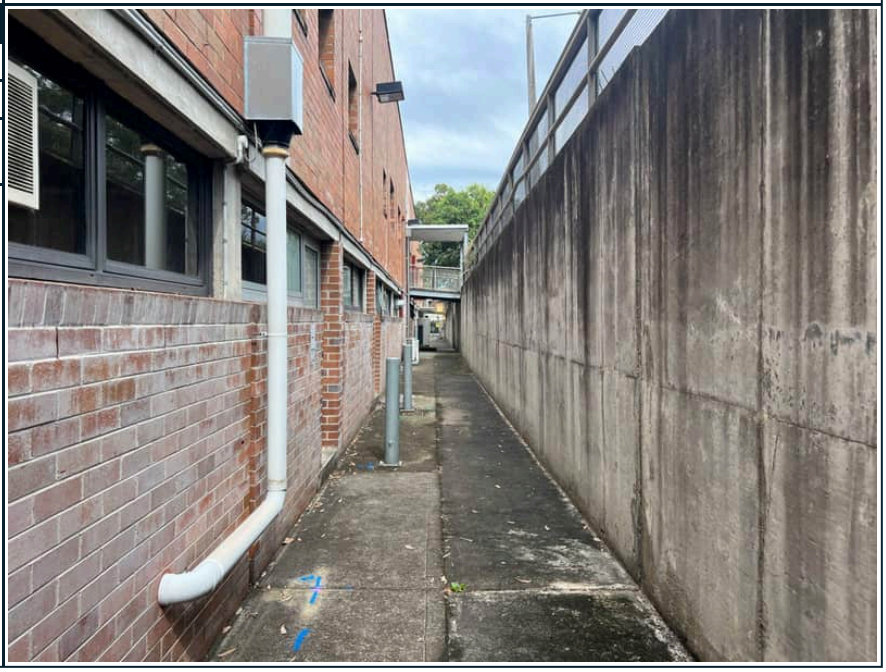


| Photo 10 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:09 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

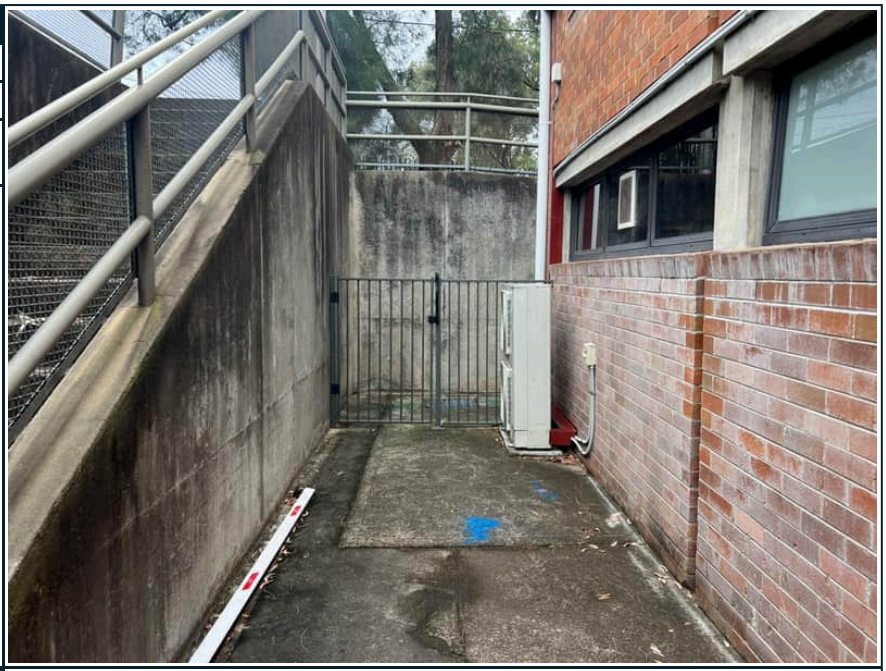


| Photo 11 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:11 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

| Photo 12 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:33 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |



| Photo 13 | |
|---|---|
| **Timestamp** | 18/11/2024, 9:53:35 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |



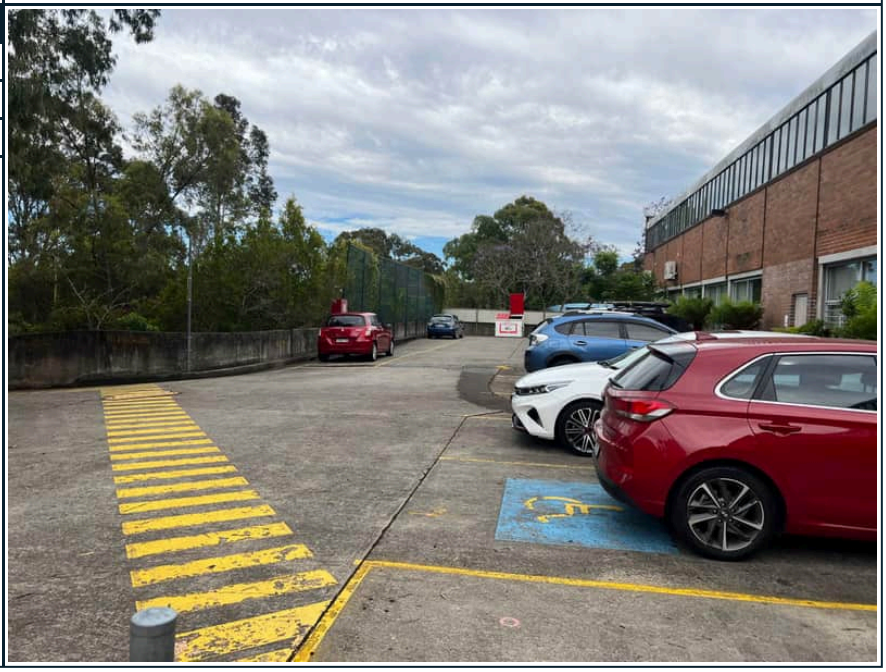
| Photo 14 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:20 am |
| **Location** | -33.73683, 151.03219 |
| **Reference** | Retaining wall, north of Building D |
| **Comment** | |

| Photo 15 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:14 am |
| **Location** | -33.73687, 151.03199 |
| **Reference** | |
| **Comment** | Building D |

| Photo 16 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:42 am |
| **Location** | -33.73687, 151.03199 |
| **Reference** | |
| **Comment** | Building D |

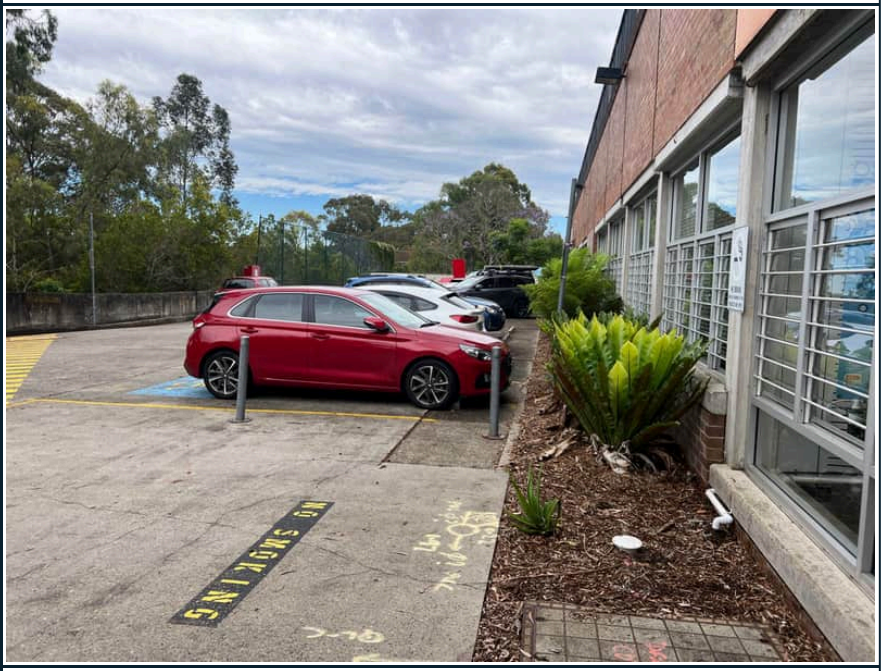
| Photo 17 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:46 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |

| Photo 18 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:18 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |



| Photo 19 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:39 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |

| Photo 20 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:01:13 am |
| **Location** | -33.73831, 151.03467 |
| **Reference** | |
| **Comment** | Carpark to the south of Building D |




| Photo 21 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:32 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 22 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:27 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 23 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:00:34 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 24 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:06:47 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 25 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:06:50 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 26 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:06:52 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

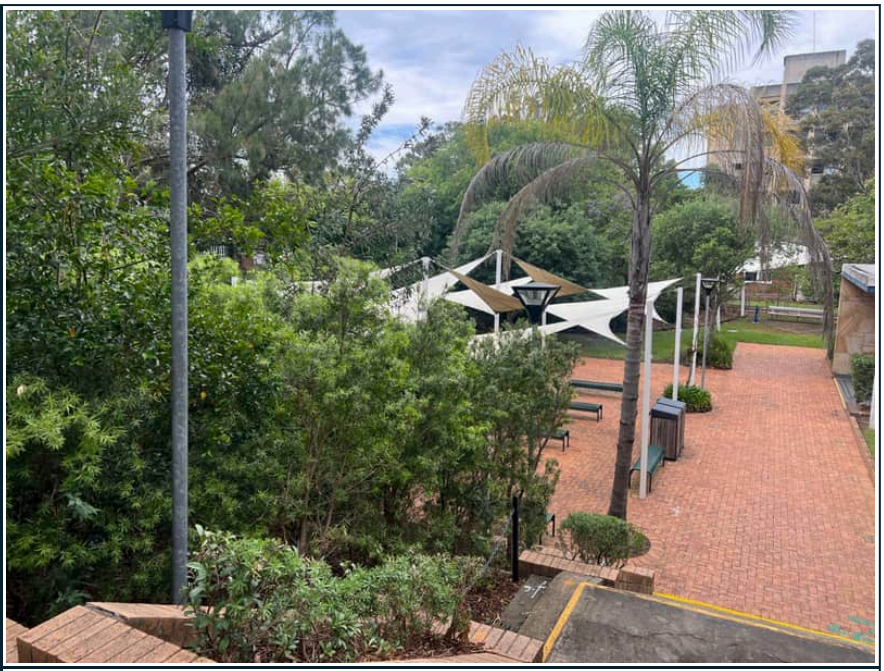
| Photo 27 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:23 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 28 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:24 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 29 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:25 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 30 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:28 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

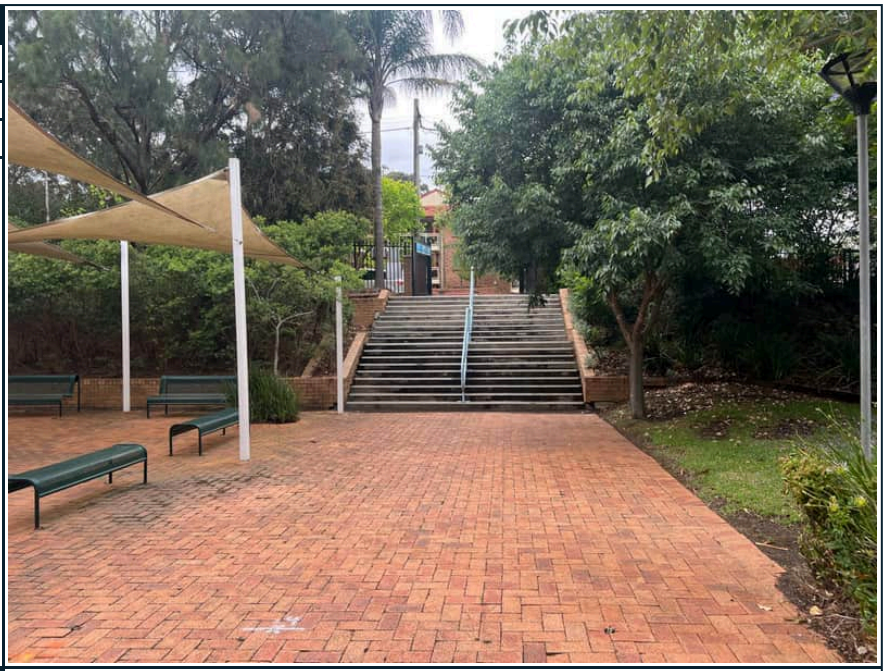
| Photo 31 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:29 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |



| Photo 32 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:08:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 33 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:10:07 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 34 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:10:08 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |



| Photo 35 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:10:10 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden, seating and courtyard area to the east of Building C |

| Photo 36 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:40 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

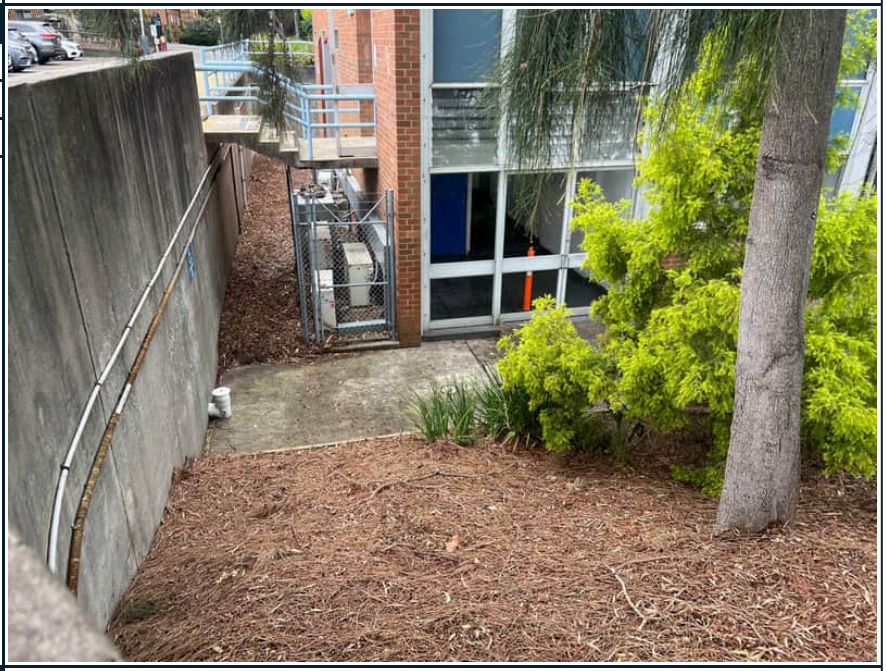
| Photo 37 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:41 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 38 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:42 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 39 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:44 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

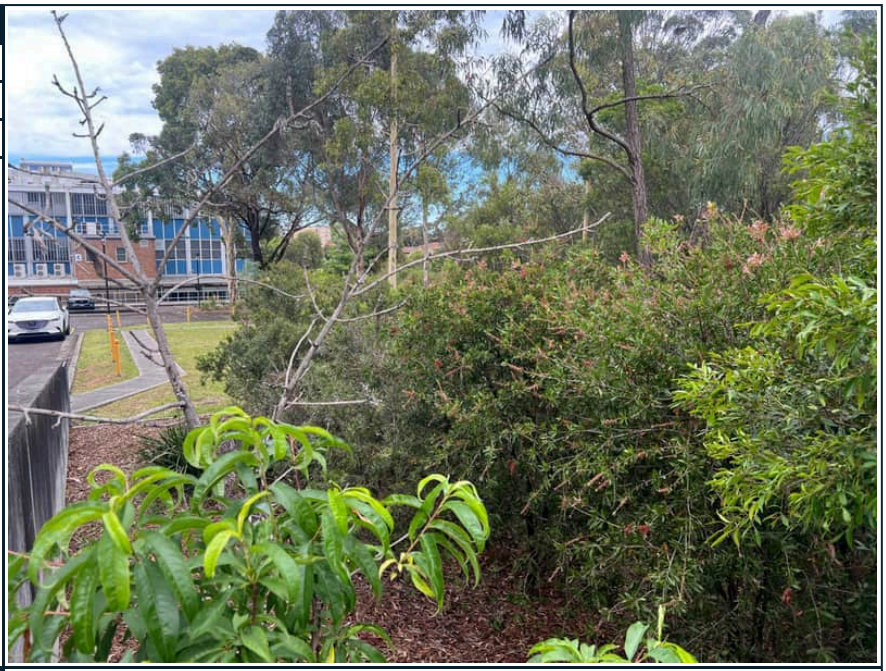
| Photo 40 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:46 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car ramp to the northwest of Building C, connecting the staff car parks. |

| Photo 41 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:51 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaking wall and vegetation fill to the north of Building C |



| Photo 42 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:16:52 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaking wall and vegetation fill to the north of Building C |

| Photo 43 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:17:02 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaking wall and vegetation fill to the north of Building C |



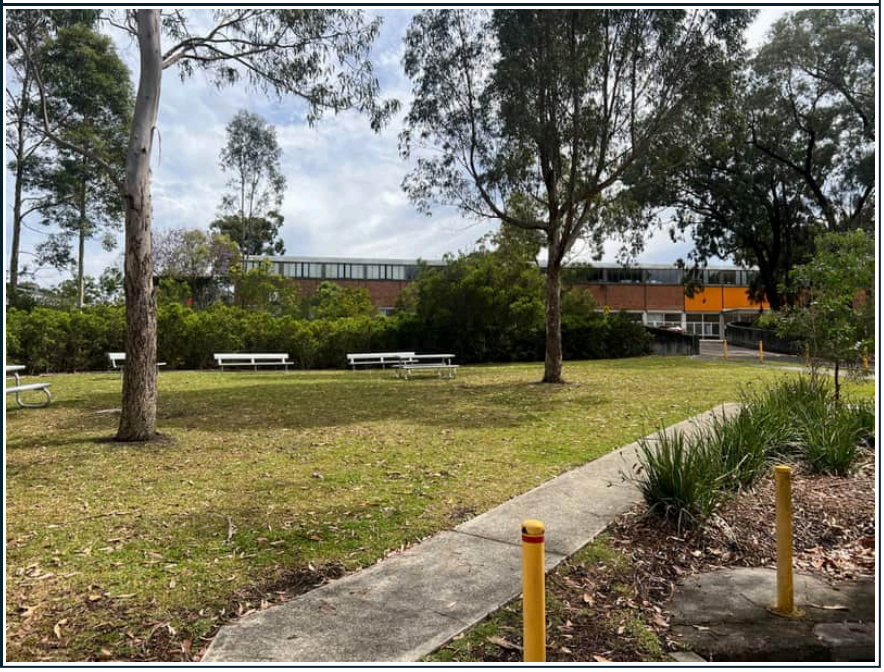
| Photo 44 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:18:53 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 45 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:18:54 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 46 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:18:58 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 47 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:06 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 48 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:12 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |



| Photo 49 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:29 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 50 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 51 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:31 am |
| **Location** | |
| **Reference** | |
| **Comment** | Carpark and grassed seating area to the west of Building C |

| Photo 52 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:19:32 am |
| **Location** | |
| **Reference** | |
| **Comment** | Retaining wall to the north of Building C |

| Photo 53 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:20:28 am |
| **Location** | |
| **Reference** | |
| **Comment** | Staff carpark to the west of Building A |

| Photo 54 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:20:31 am |
| **Location** | |
| **Reference** | |
| **Comment** | Footbridge connecting Building C and Building A |

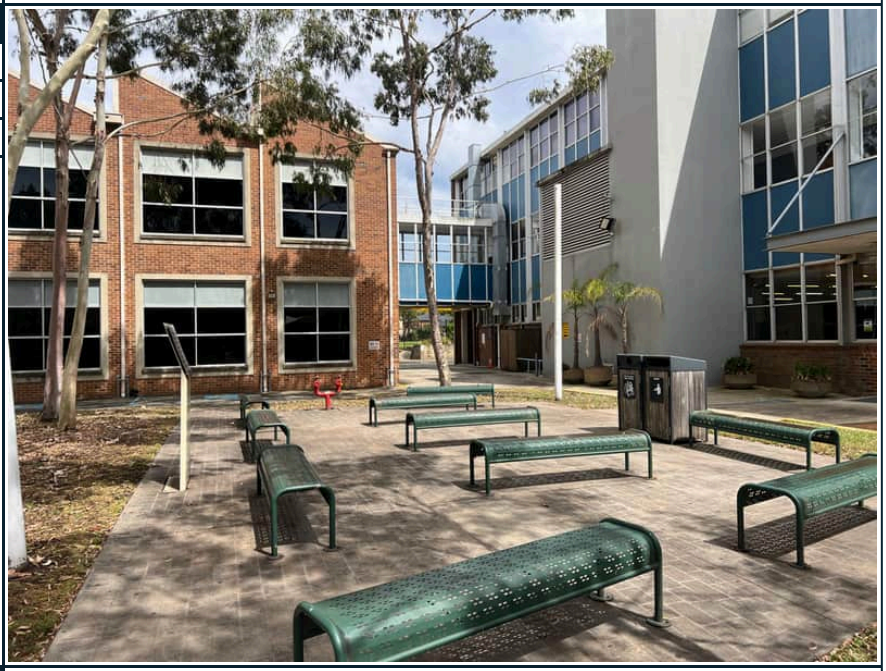
| Photo 55 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:23:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Entrance via Gate N |

| Photo 56 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:23:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Entrance via Gate N |

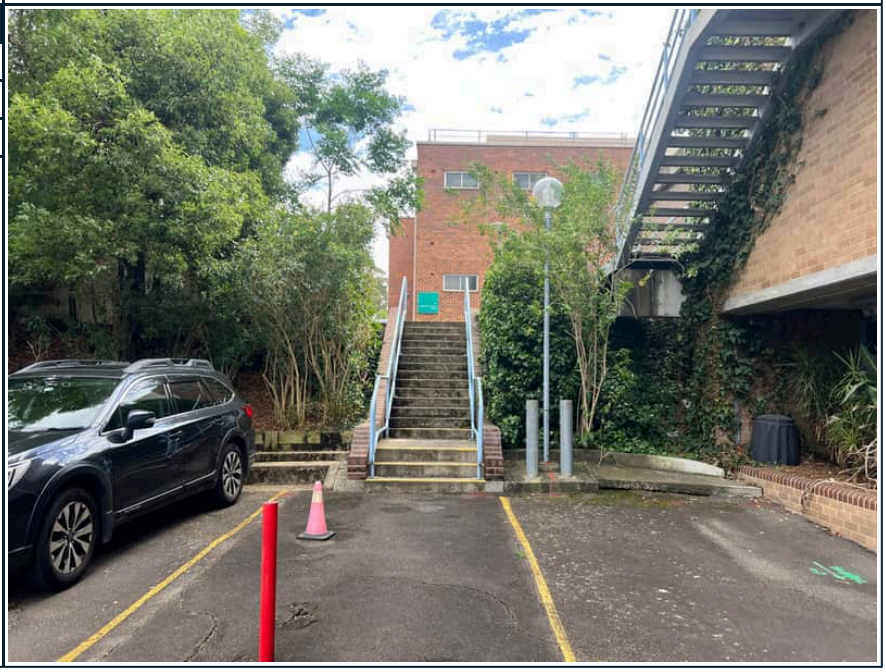
| Photo 57 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:33 am |
| **Location** | |
| **Reference** | |
| **Comment** | Central grassed seating area |

| Photo 58 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:33 am |
| **Location** | |
| **Reference** | |
| **Comment** | Central grassed seating area |

| Photo 59 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:35 am |
| **Location** | |
| **Reference** | |
| **Comment** | Central grassed seating area |



| Photo 60 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:48:53 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |



| Photo 61 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:48:54 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |

| Photo 62 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:01 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |

| Photo 63 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:02 am |
| **Location** | |
| **Reference** | |
| **Comment** | Car park to the west of Building J |

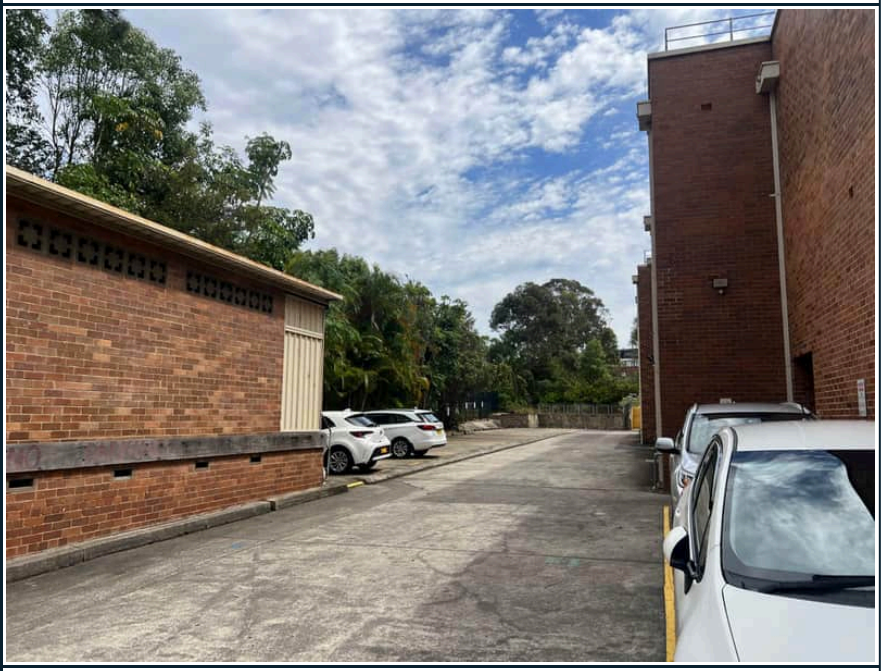
| Photo 64 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Energy Australia transformer |

| Photo 65 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:31 am |
| **Location** | |
| **Reference** | |
| **Comment** | Energy Australia transformer |

| Photo 66 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garbage area to the west of Building A |

| Photo 67 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:46 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garbage area to the west of Building A |

| Photo 68 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:47 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garbage area to the west of Building A |

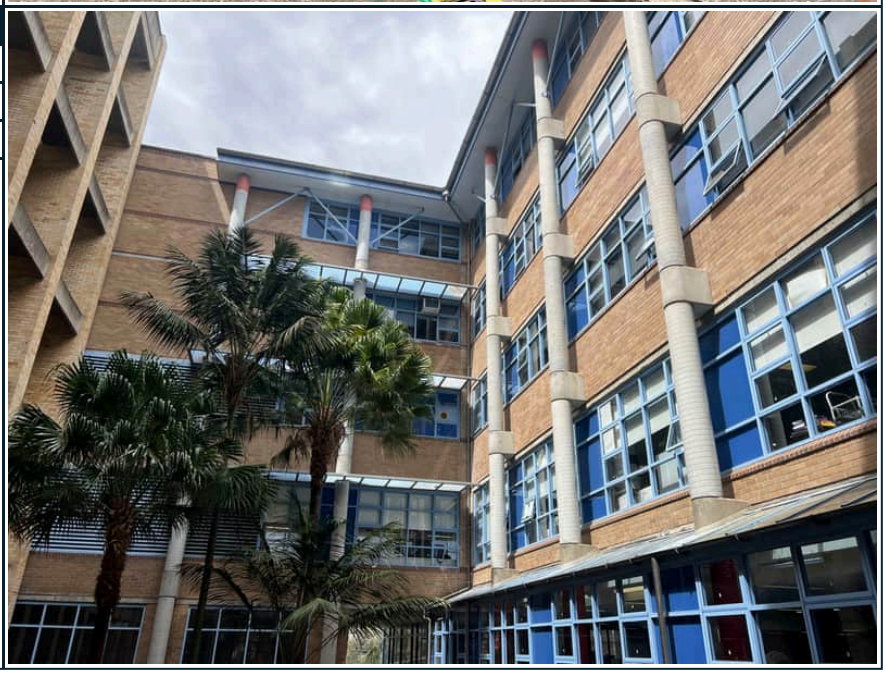


| Photo 69 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:41 am |
| **Location** | |
| **Reference** | |
| **Comment** | Building G |

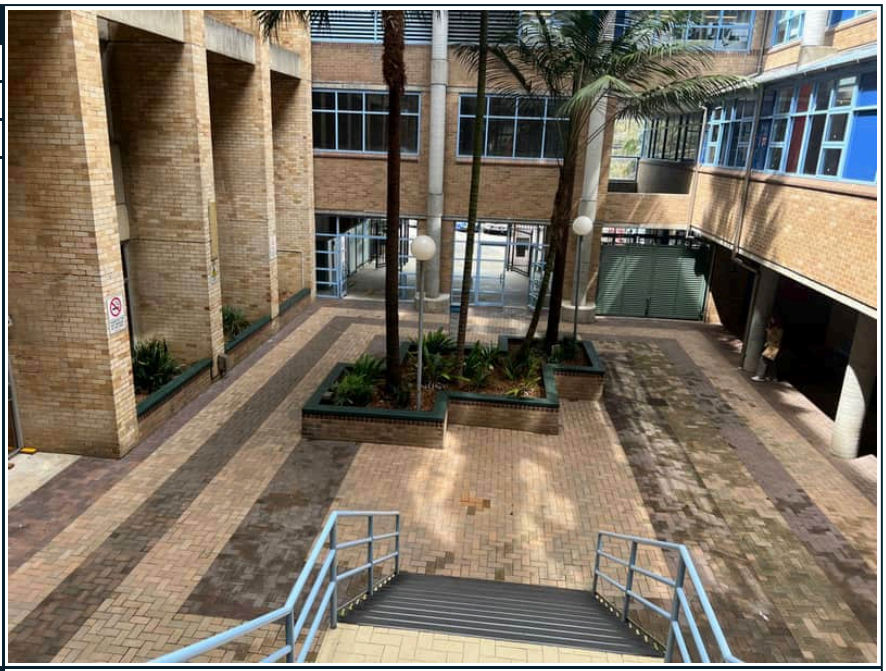
| Photo 70 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:27:40 am |
| **Location** | |
| **Reference** | |
| **Comment** | Building G |

| Photo 71 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:06 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

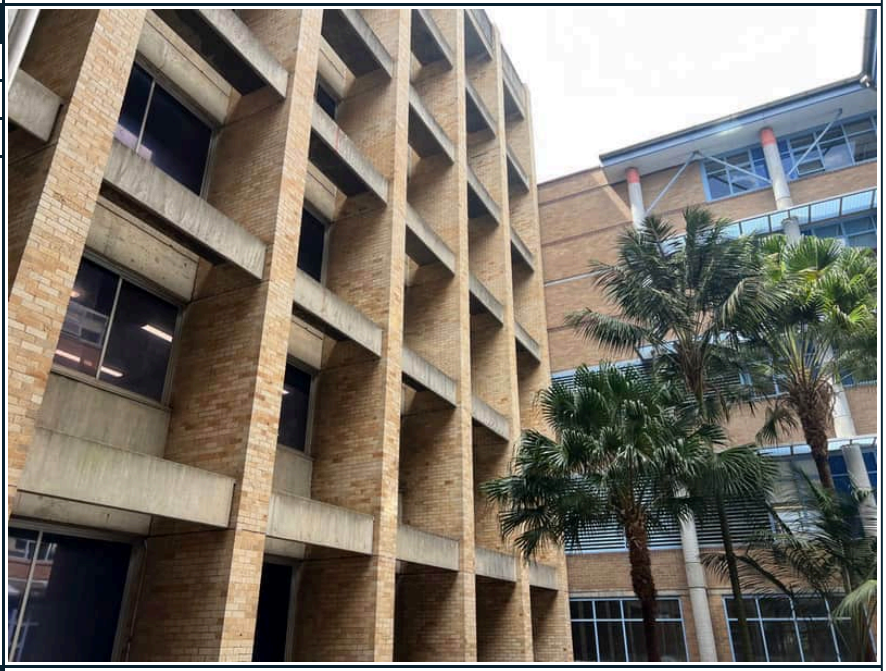
| Photo 72 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:52 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |



| Photo 73 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:56 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

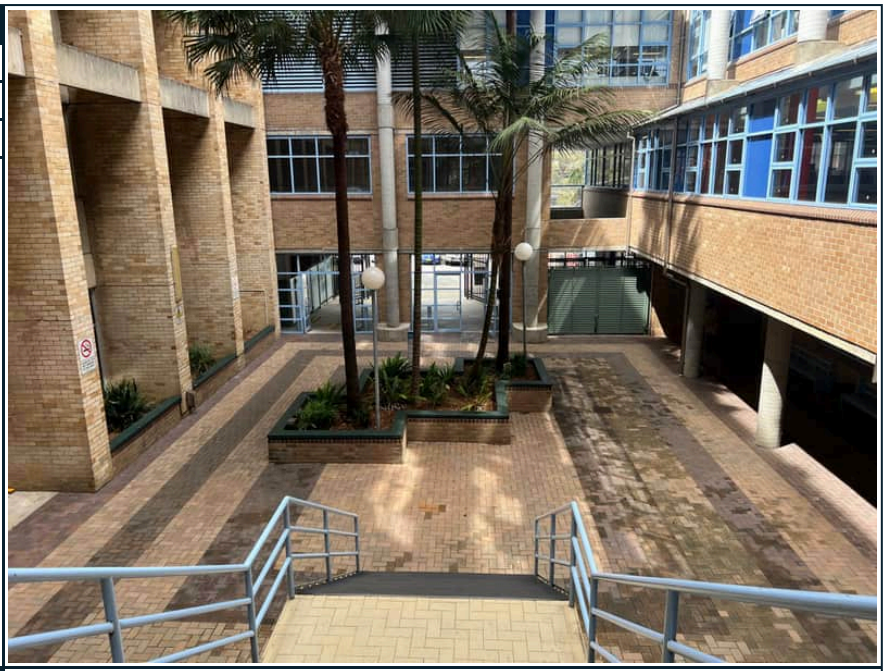


| Photo 74 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:51 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |



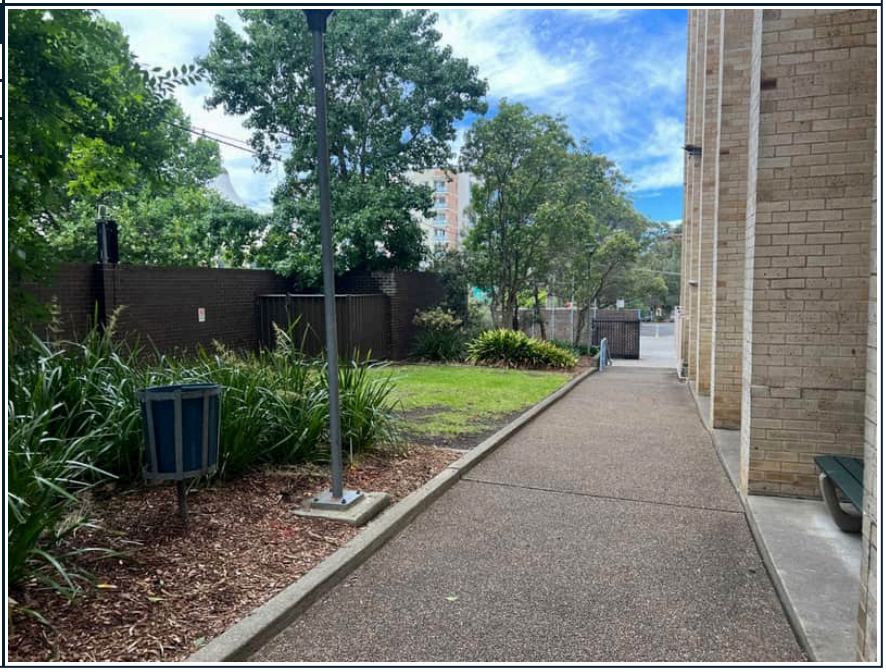
| Photo 75 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:07 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

| Photo 76 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:50:50 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

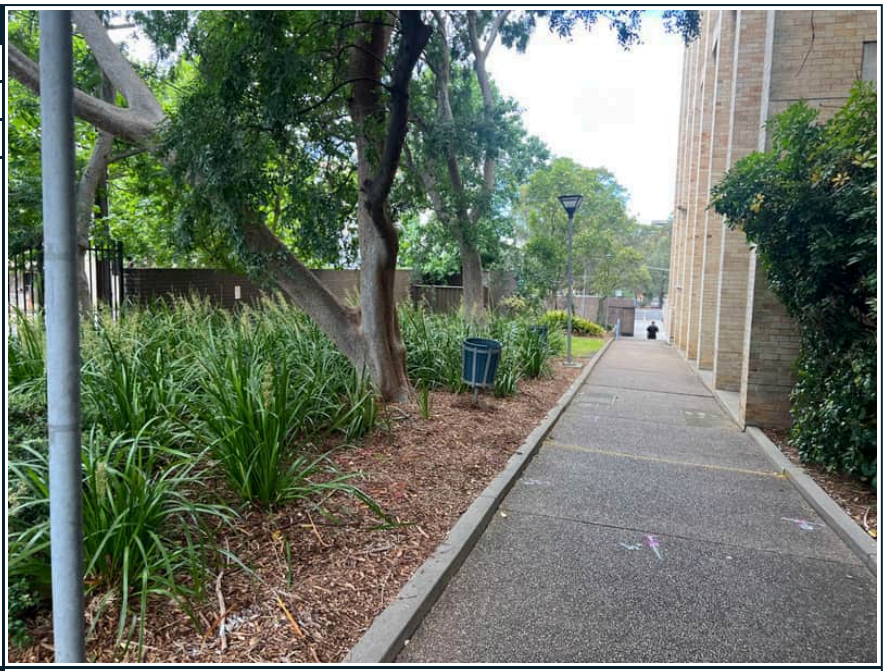


| Photo 77 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:49:32 am |
| **Location** | -33.79604, 151.17786 |
| **Reference** | |
| **Comment** | Building J and E, with courtyard within the centre of the buildings |

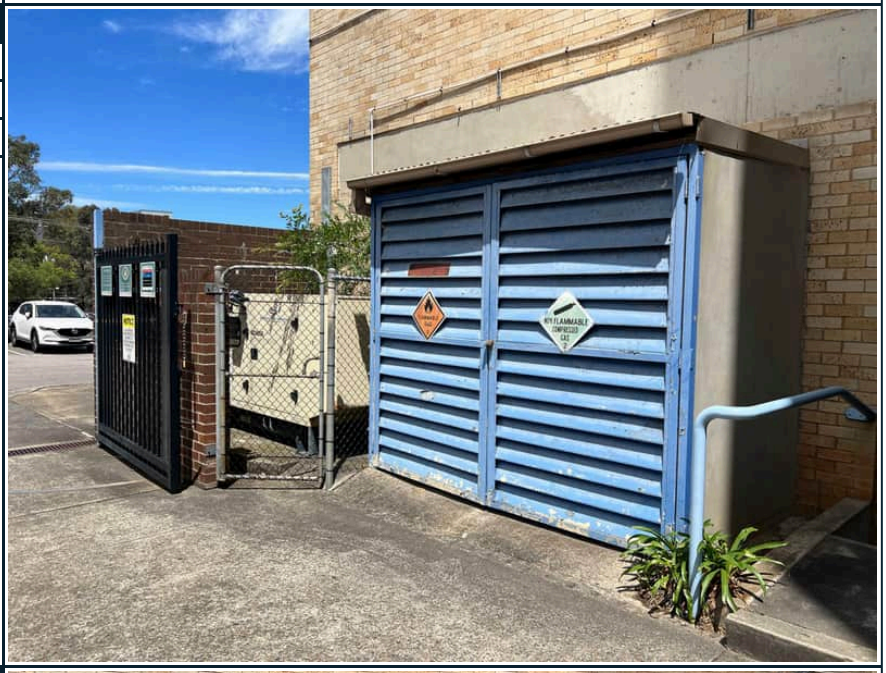
| Photo 78 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:56:30 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden area to the east of Building E |



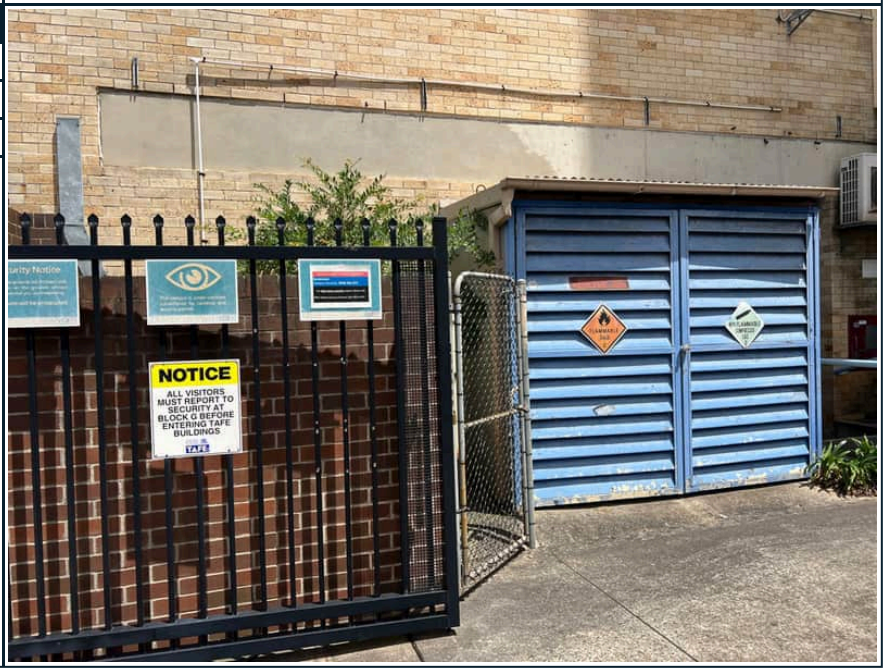
| Photo 79 | |
|---|---|
| **Timestamp** | 18/11/2024, 10:56:21 am |
| **Location** | |
| **Reference** | |
| **Comment** | Garden area to the east of Building E |



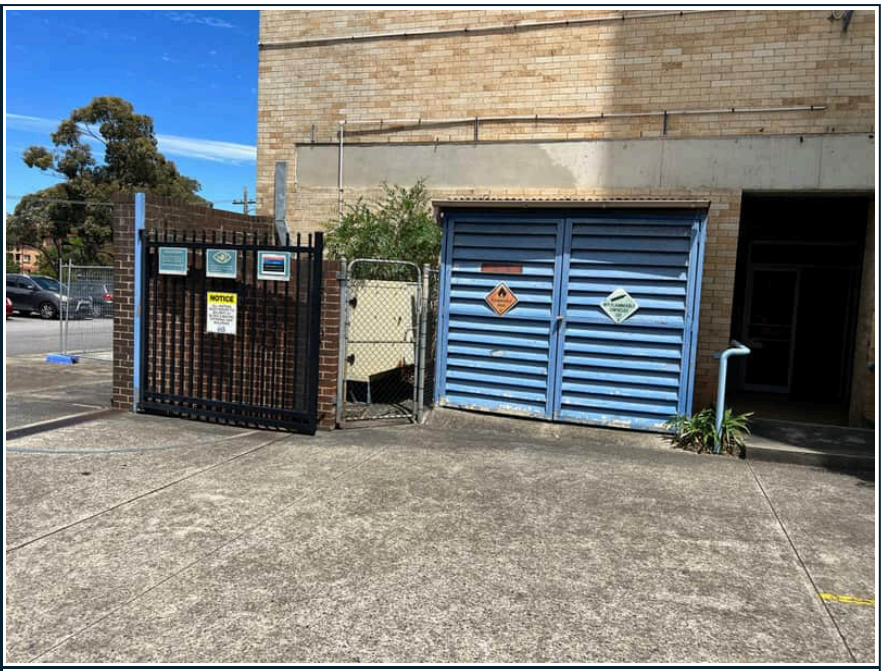
| Photo 80 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:26:34 am |
| **Location** | |
| **Reference** | |
| **Comment** | Backup generator and fuel storage to the east of Building E |



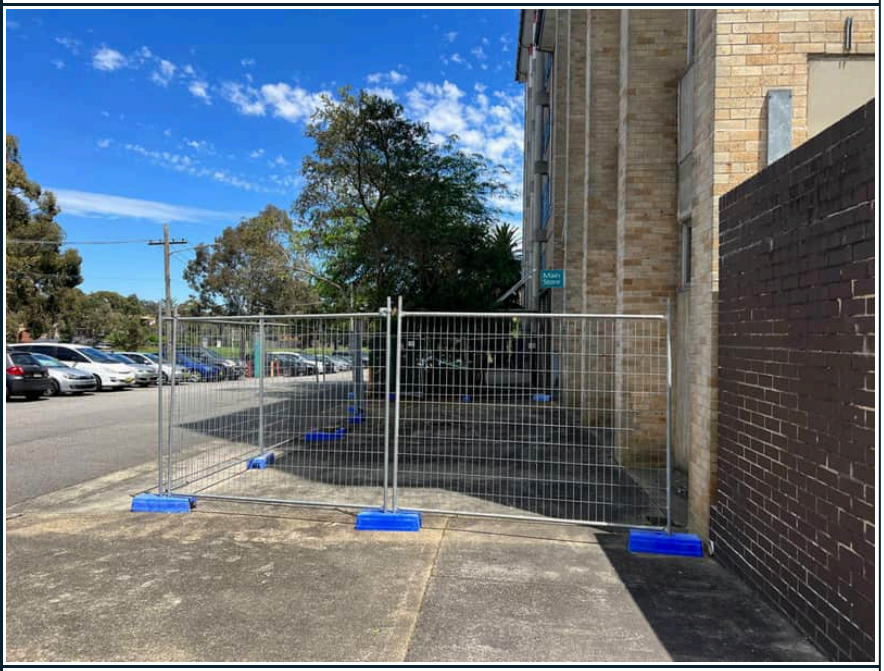
| Photo 81 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:26:41 am |
| **Location** | |
| **Reference** | |
| **Comment** | Backup generator and fuel storage to the east of Building E |



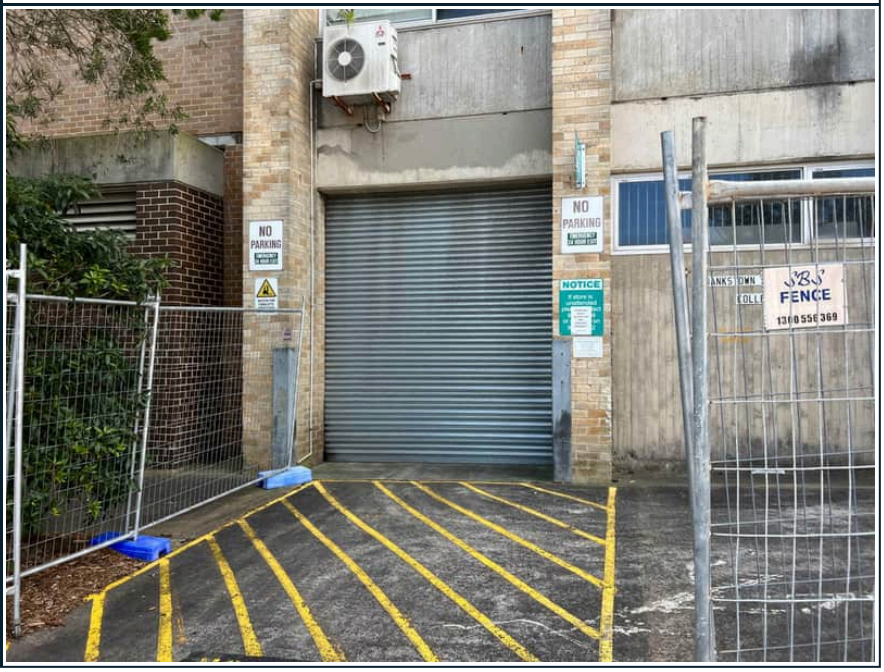
| Photo 82 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:26:46 am |
| **Location** | |
| **Reference** | |
| **Comment** | Backup generator and fuel storage to the east of Building E |



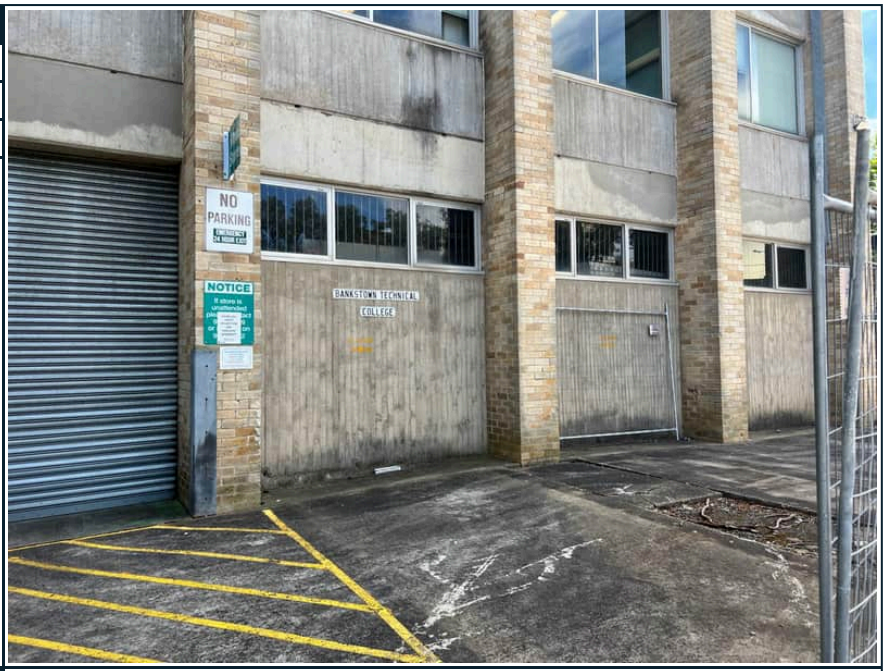

| Photo 83 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:25 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |



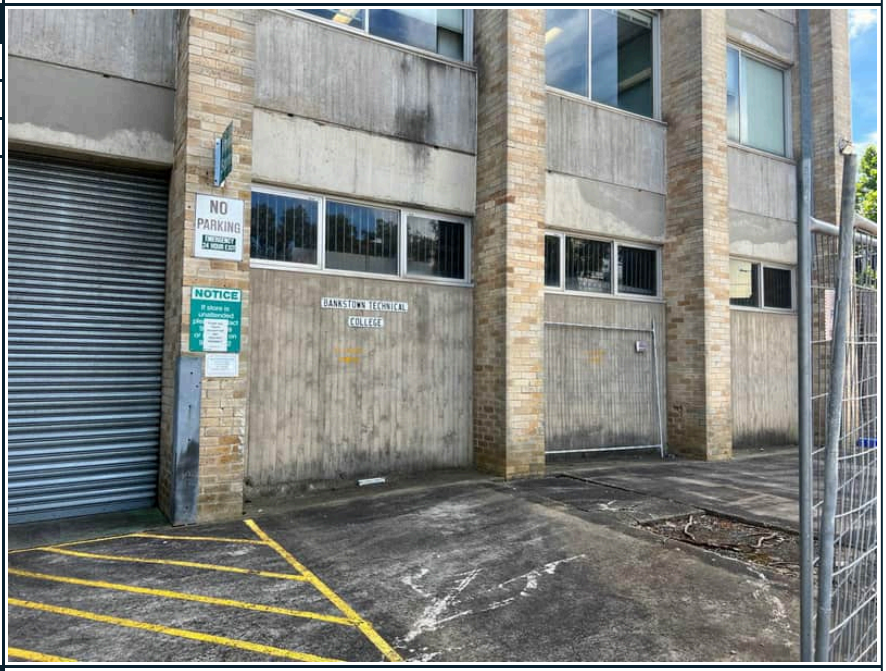
| Photo 84 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:44 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |



| Photo 85 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:50 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |

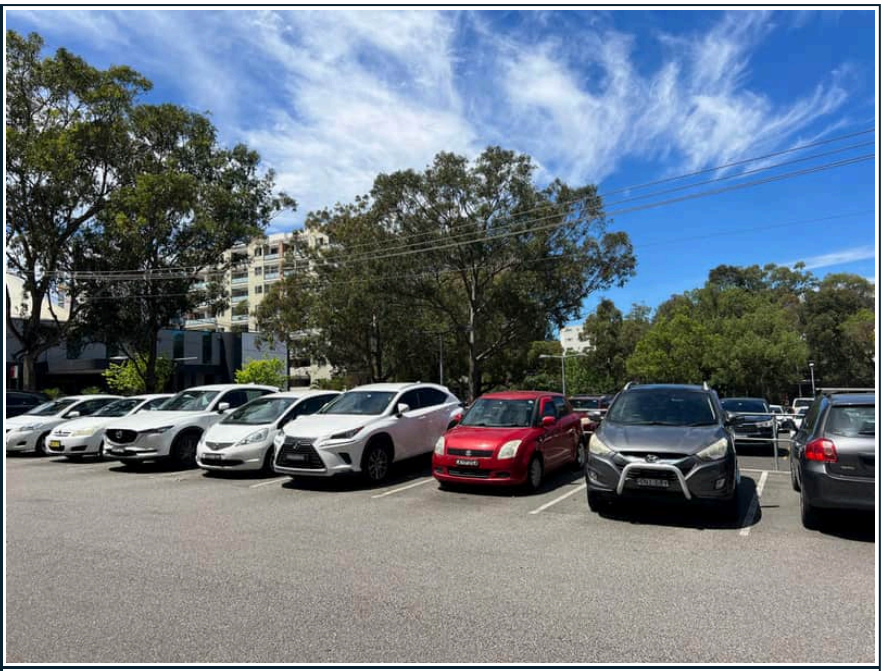



| Photo 86 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:50 am |
| **Location** | -33.78962, 151.18063 |
| **Reference** | |
| **Comment** | Storage and delivery receiving area, former maintenance storage area |




| Photo 87 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:33:02 am |
| **Location** | -33.79899, 151.18128 |
| **Reference** | |
| **Comment** | Foot entrance into the TAFE |

| Photo 88 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:32:53 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

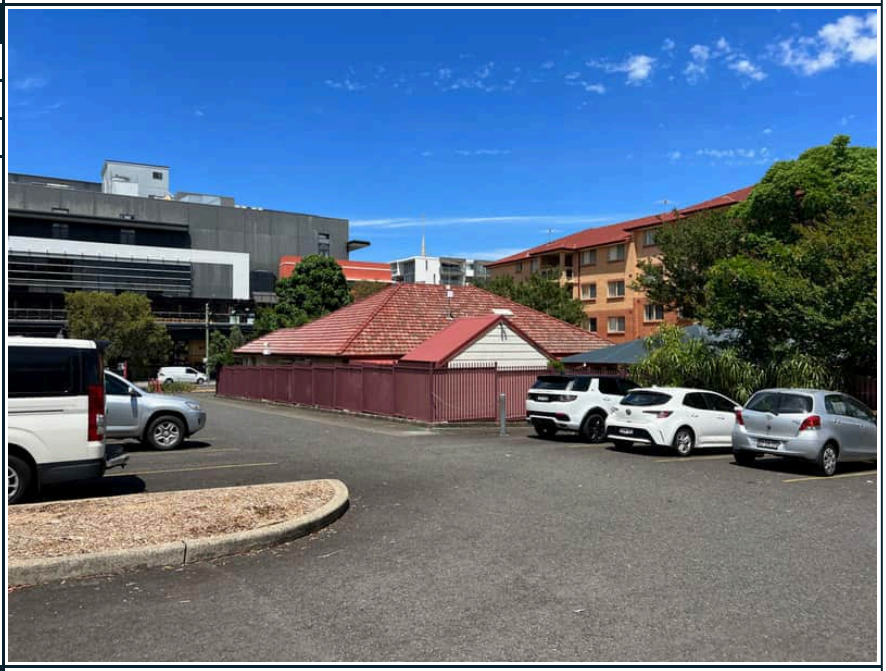


| Photo 89 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:33:11 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 90 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:33:12 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

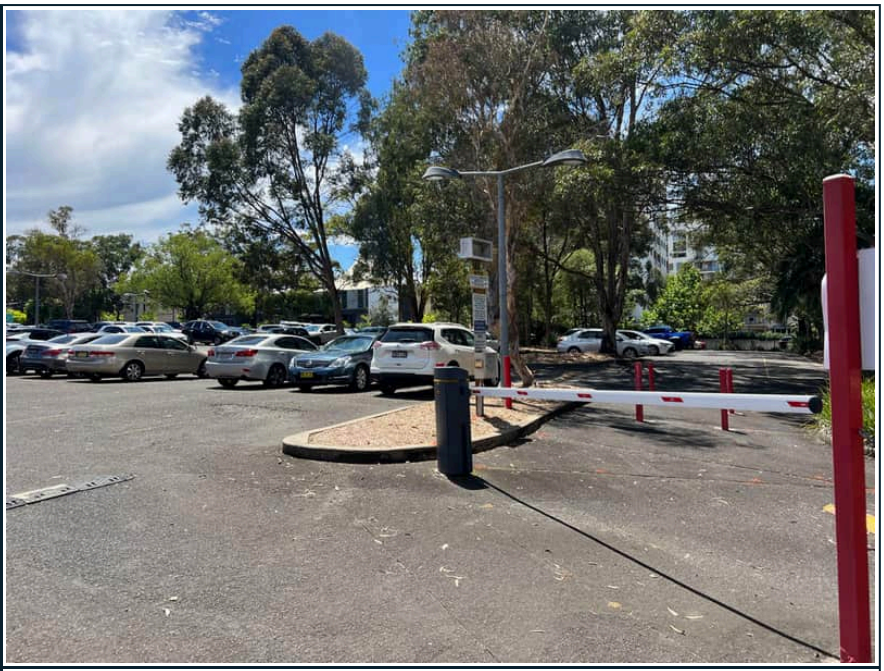
| Photo 91 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:34:06 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 92 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:34:08 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |



| Photo 93 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:25 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

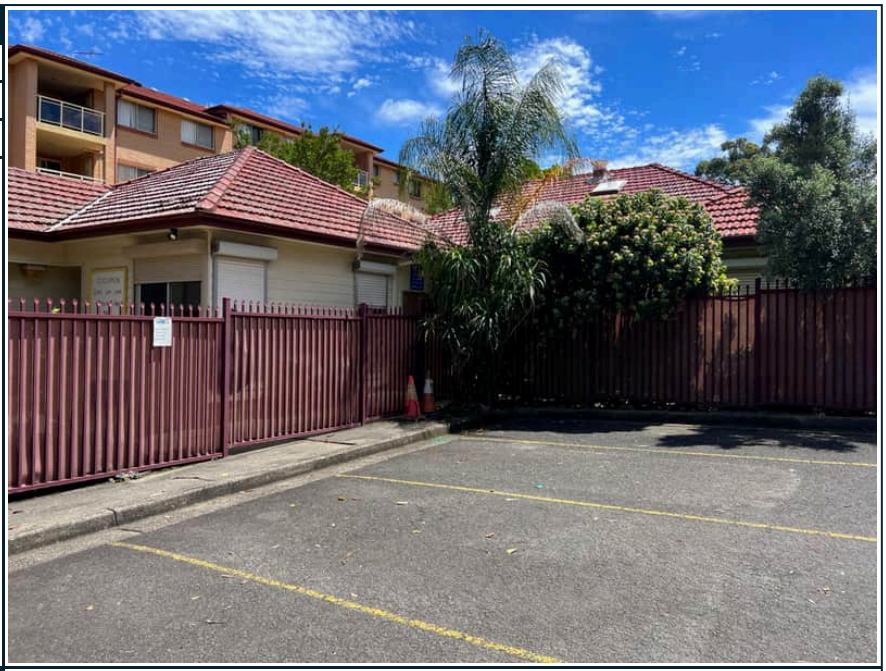
| Photo 94 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:26 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |



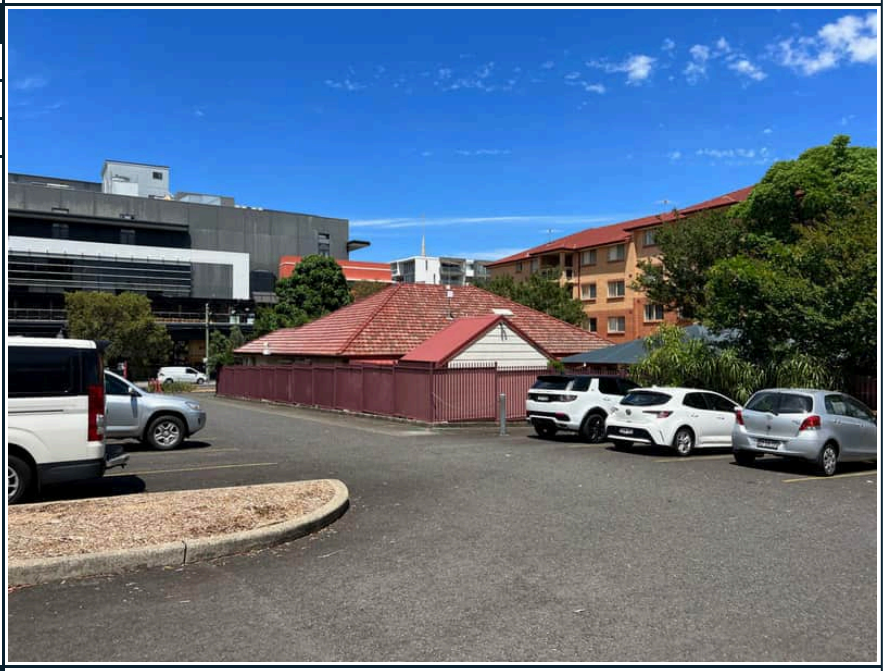
| Photo 95 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:27 am |
| **Location** | -33.79782, 151.18091 |
| **Reference** | |
| **Comment** | Student carpark to the south of the Site |

| Photo 96 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:23 am |
| **Location** | -33.79991, 151.18098 |
| **Reference** | |
| **Comment** | Childcare centre (Building L) to the southeast of the Site |

| Photo 97 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:35:22 am |
| **Location** | -33.79991, 151.18098 |
| **Reference** | |
| **Comment** | Childcare centre (Building L) to the southeast of the Site |

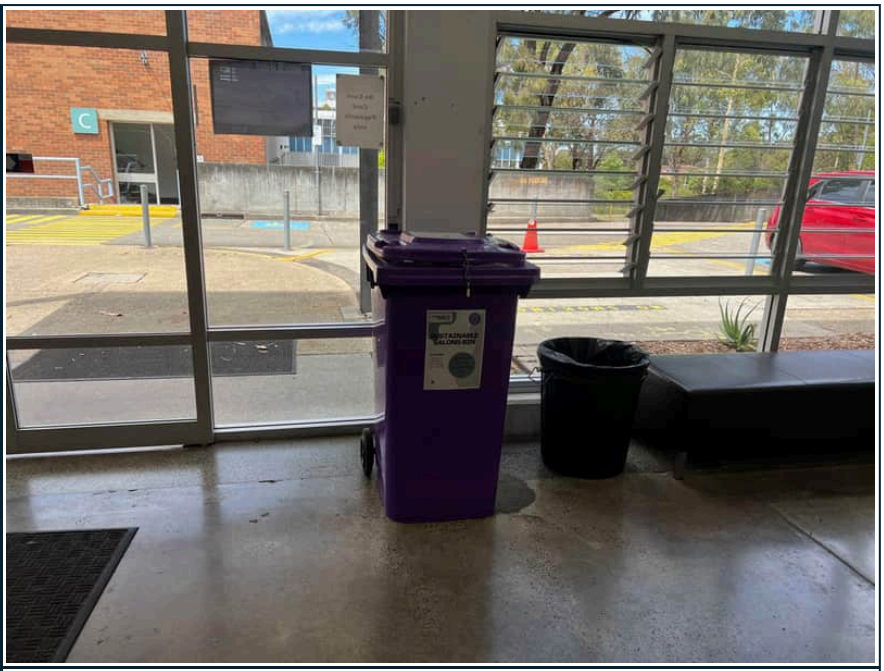


| Photo 98 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:34:08 am |
| **Location** | -33.79991, 151.18098 |
| **Reference** | |
| **Comment** | Childcare centre (Building L) to the southeast of the Site |



| Photo 99 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:05:06 am |
| **Location** | -33.81115, 151.18169 |
| **Reference** | |
| **Comment** | Sustainable Salons bins within Building D, used to dispose of unused bleaches and dyes |

| Photo 100 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:00 am |
| **Location** | -33.81115, 151.18169 |
| **Reference** | |
| **Comment** | Sustainable Salons bins within Building D, used to dispose of unused bleaches and dyes |



| Photo 101 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:40 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 102 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:43 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 103 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:45 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 104 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:50 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

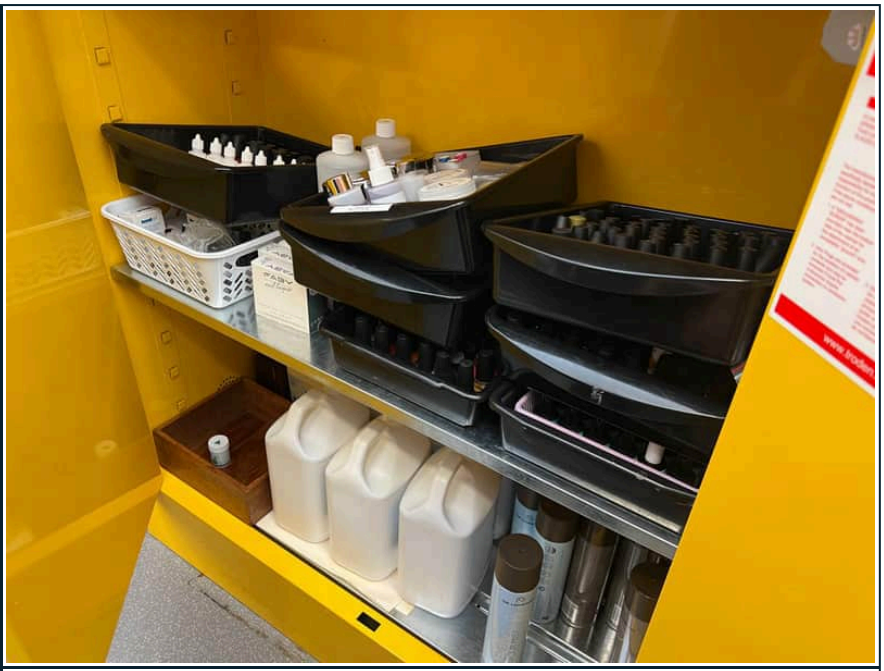
| Photo 105 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:06:53 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 106 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:05 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

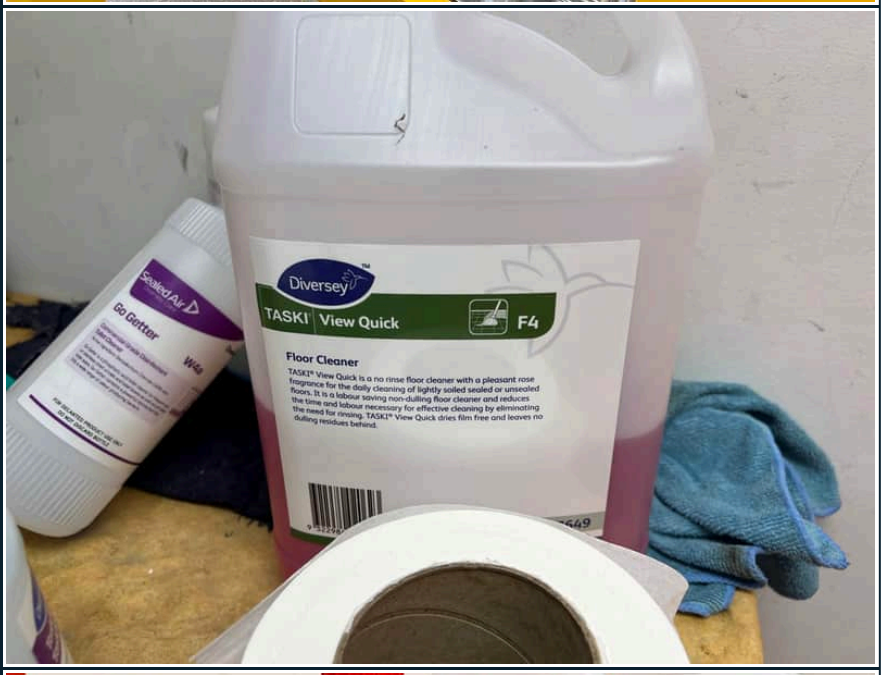
| Photo 107 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:16 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 108 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:20 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

| Photo 109 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:07:32 am |
| **Location** | |
| **Reference** | |
| **Comment** | Bleaches, paints, dyes and acetone, stored within chemical cabinets in Building D |

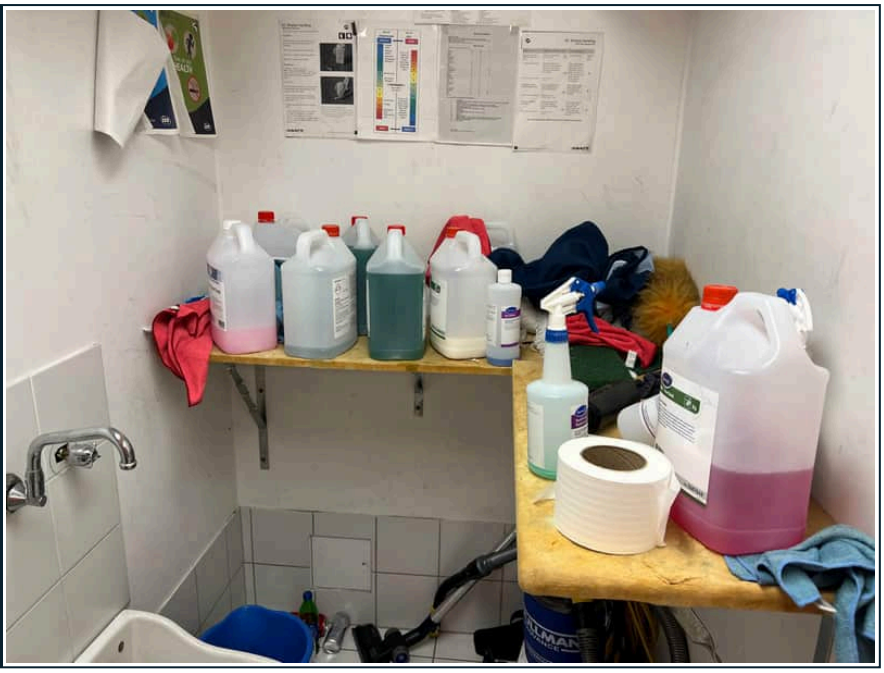


| Photo 110 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:08:47 am |
| **Location** | |
| **Reference** | |
| **Comment** | Cleaning products within the cleaners room within Building D |




| Photo 111 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:08:45 am |
| **Location** | |
| **Reference** | |
| **Comment** | Cleaning products within the cleaners room within Building D |

| Photo 112 | |
|---|---|
| **Timestamp** | 18/11/2024, 11:08:39 am |
| **Location** | |
| **Reference** | |
| **Comment** | Cleaning products within the cleaners room within Building D |



# Field Site Notes

## Inspection Details

| | |
|---|---|
| **Inspection Name** | Bankstown New Hospital |
| **Inspection ID** | |
| **Inspector** | Harrison Wood |
| **Date** | 2024-12-09 |
| **Time** | 08:18 |
| **General Photos** | |

## General Comments

## Notes

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.91086, 151.03457 | TP111 | | 1 - 8 |
| -33.91101, 151.03471 | TP112 | | 9 - 15 |
| -33.91070, 151.03415 | TP110 | | 16 - 18 |
| -33.91111, 151.03457 | TP113 | | 19 - 26 |
| -33.91104, 151.03473 | TP115 | | 27 - 34 |
| -33.91120, 151.03453 | TP114 | | 35 - 40 |
| -33.91127, 151.03506 | TP117 | | 41 - 45 |
| -33.91100, 151.03506 | TP116 | | 46 - 50 |
| -33.91128, 151.03455 | TP119 | | 51 - 60 |
| -33.91075, 151.03518 | TP109 | | 61 - 65 |
| -33.90963, 151.03470 | TP101 | | 66 - 69 |
| -33.90957, 151.03536 | TP102 | | 70 - 72 |
| -33.91029, 151.03457 | TP106 | | 73 - 77 |
| -33.91018, 151.03455 | TP104 | | 78 - 81 |
| -33.91020, 151.03435 | TP103 | | 82 - 88 |
| -33.91033, 151.03433 | TP105 | | 89 - 94 |
| -33.90994, 151.03550 | TP107 | | 95 - 100 |
| -33.91221, 151.03412 | TP122 | | 101 - 105 |
| -33.91211, 151.03475 | TP123 | | 106 - 109 |
| -33.91230, 151.03476 | TP126 | | 110 - 112 |
| -33.91228, 151.03447 | TP125 | | 113 - 116 |
| -33.91208, 151.03432 | TP121 | | 117 - 120 |
| -33.91230, 151.03425 | TP124 | | 121 - 126 |
| -33.91185, 151.03495 | TP120 | | 127 - 128 |
| -33.91258, 151.03459 | TP129 | | 129 - 132 |
| -33.91252, 151.03441 | TP128 | | 133 - 137 |
| -33.91287, 151.03406 | TP130 | | 138 - 142 |
| -33.91280, 151.03445 | TP130 | | 143 - 145 |
| -33.91295, 151.03445 | TP131 | | 146 - 149 |

| Location | Reference | Comment | Photos |
|---|---|---|---|
| -33.91245, 151.03393 | TP127 | | 150 - 157 |
| -33.91303, 151.03473 | TP132 | | 158 - 162 |
| -33.90952, 151.03435 | TP108 | | 163 - 166 |

## Map

| Photo 1 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:32 am |
| **Location** | -33.91085, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 2 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:38 am |
| **Location** | -33.91082, 151.03453 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 3 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:44 am |
| **Location** | -33.91082, 151.03454 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 4 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:50 am |
| **Location** | -33.91084, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 5 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:19:54 am |
| **Location** | -33.91086, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 6 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:26:43 am |
| **Location** | -33.91081, 151.03457 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 7 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:26:46 am |
| **Location** | -33.91081, 151.03456 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 8 | |
|---|---|
| **Timestamp** | 09/12/2024, 8:32:44 am |
| **Location** | -33.91085, 151.03453 |
| **Reference** | TP111 |
| **Comment** | |

| Photo 9 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:05 am |
| **Location** | -33.91092, 151.03467 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 10 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:12 am |
| **Location** | -33.91091, 151.03464 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 11 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:19 am |
| **Location** | -33.91092, 151.03464 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 12 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:23 am |
| **Location** | -33.91093, 151.03467 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 13 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:30 am |
| **Location** | -33.91089, 151.03465 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 14 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:10:36 am |
| **Location** | -33.91091, 151.03464 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 15 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:17:43 am |
| **Location** | -33.91098, 151.03458 |
| **Reference** | TP112 |
| **Comment** | |

| Photo 16 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:36:28 am |
| **Location** | -33.91083, 151.03424 |
| **Reference** | TP110 |
| **Comment** | |

| Photo 17 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:36:36 am |
| **Location** | -33.91083, 151.03422 |
| **Reference** | TP110 |
| **Comment** | |

| Photo 18 | |
|---|---|
| **Timestamp** | 09/12/2024, 9:36:41 am |
| **Location** | -33.91082, 151.03421 |
| **Reference** | TP110 |
| **Comment** | |

| Photo 19 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:28 am |
| **Location** | -33.91118, 151.03460 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 20 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:32 am |
| **Location** | -33.91117, 151.03459 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 21 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:38 am |
| **Location** | -33.91114, 151.03457 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 22 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:42 am |
| **Location** | -33.91114, 151.03458 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 23 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:29:45 am |
| **Location** | -33.91114, 151.03459 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 24 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:31:49 am |
| **Location** | -33.91115, 151.03464 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 25 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:31:53 am |
| **Location** | -33.91115, 151.03464 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 26 | |
|---|---|
| **Timestamp** | 09/12/2024, 10:34:01 am |
| **Location** | -33.91118, 151.03464 |
| **Reference** | TP113 |
| **Comment** | |

| Photo 27 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:07 am |
| **Location** | -33.91124, 151.03463 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 28 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:13 am |
| **Location** | -33.91127, 151.03464 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 29 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:19 am |
| **Location** | -33.91130, 151.03464 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 30 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:24 am |
| **Location** | -33.91131, 151.03463 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 31 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:05:32 am |
| **Location** | -33.91131, 151.03466 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 32 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:07:45 am |
| **Location** | -33.91129, 151.03466 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 33 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:07:49 am |
| **Location** | -33.91129, 151.03467 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 34 | |
|---|---|
| **Timestamp** | 09/12/2024, 11:07:59 am |
| **Location** | -33.91131, 151.03464 |
| **Reference** | TP115 |
| **Comment** | |

| Photo 35 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:16 pm |
| **Location** | -33.91120, 151.03454 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 36 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:21 pm |
| **Location** | -33.91122, 151.03455 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 37 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:25 pm |
| **Location** | -33.91126, 151.03455 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 38 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:37 pm |
| **Location** | -33.91119, 151.03449 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 39 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:11:40 pm |
| **Location** | -33.91122, 151.03451 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 40 | |
|---|---|
| **Timestamp** | 09/12/2024, 12:16:13 pm |
| **Location** | -33.91126, 151.03454 |
| **Reference** | TP114 |
| **Comment** | |

| Photo 41 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:40 pm |
| **Location** | -33.91125, 151.03506 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 42 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:44 pm |
| **Location** | -33.91126, 151.03508 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 43 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:48 pm |
| **Location** | -33.91128, 151.03505 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 44 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:52 pm |
| **Location** | -33.91130, 151.03504 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 45 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:00:56 pm |
| **Location** | -33.91131, 151.03503 |
| **Reference** | TP117 |
| **Comment** | |

| Photo 46 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:12 pm |
| **Location** | -33.91099, 151.03501 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 47 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:15 pm |
| **Location** | -33.91099, 151.03499 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 48 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:18 pm |
| **Location** | -33.91100, 151.03499 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 49 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:24 pm |
| **Location** | -33.91101, 151.03503 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 50 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:24:27 pm |
| **Location** | -33.91102, 151.03505 |
| **Reference** | TP116 |
| **Comment** | |

| Photo 51 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:53:47 pm |
| **Location** | -33.91131, 151.03452 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 52 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:53:54 pm |
| **Location** | -33.91129, 151.03452 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 53 | |
|---|---|
| **Timestamp** | 09/12/2024, 1:54:02 pm |
| **Location** | -33.91133, 151.03451 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 54 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:27 pm |
| **Location** | -33.91130, 151.03449 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 55 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:34 pm |
| **Location** | -33.91131, 151.03446 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 56 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:36 pm |
| **Location** | -33.91131, 151.03446 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 57 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:03:40 pm |
| **Location** | -33.91131, 151.03447 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 58 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:06:58 pm |
| **Location** | -33.91128, 151.03447 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 59 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:07:02 pm |
| **Location** | -33.91128, 151.03448 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 60 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:27:25 pm |
| **Location** | -33.91086, 151.03455 |
| **Reference** | TP119 |
| **Comment** | |

| Photo 61 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:42 pm |
| **Location** | -33.91066, 151.03502 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 62 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:46 pm |
| **Location** | -33.91066, 151.03502 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 63 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:51 pm |
| **Location** | -33.91066, 151.03503 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 64 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:55 pm |
| **Location** | -33.91065, 151.03503 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 65 | |
|---|---|
| **Timestamp** | 09/12/2024, 2:59:58 pm |
| **Location** | -33.91064, 151.03503 |
| **Reference** | TP109 |
| **Comment** | |

| Photo 66 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:18 pm |
| **Location** | -33.90950, 151.03494 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 67 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:23 pm |
| **Location** | -33.90950, 151.03492 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 68 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:27 pm |
| **Location** | -33.90951, 151.03492 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 69 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:07:36 pm |
| **Location** | -33.90951, 151.03494 |
| **Reference** | TP101 |
| **Comment** | |

| Photo 70 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:50:31 pm |
| **Location** | -33.90958, 151.03534 |
| **Reference** | TP102 |
| **Comment** | |

| Photo 71 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:50:37 pm |
| **Location** | -33.90961, 151.03534 |
| **Reference** | TP102 |
| **Comment** | |

| Photo 72 | |
|---|---|
| **Timestamp** | 09/12/2024, 4:50:41 pm |
| **Location** | -33.90959, 151.03535 |
| **Reference** | TP102 |
| **Comment** | |

| Photo 73 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:19:42 am |
| **Location** | -33.91028, 151.03467 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 74 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:19:46 am |
| **Location** | -33.91028, 151.03465 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 75 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:19:51 am |
| **Location** | -33.91031, 151.03460 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 76 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:36:29 am |
| **Location** | -33.91030, 151.03464 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 77 | |
|---|---|
| **Timestamp** | 10/12/2024, 7:36:32 am |
| **Location** | -33.91033, 151.03463 |
| **Reference** | TP106 |
| **Comment** | |

| Photo 78 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:24 am |
| **Location** | -33.91012, 151.03469 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 79 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:30 am |
| **Location** | -33.91009, 151.03466 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 80 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:35 am |
| **Location** | -33.91009, 151.03466 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 81 | |
|---|---|
| **Timestamp** | 10/12/2024, 8:00:45 am |
| **Location** | -33.91008, 151.03469 |
| **Reference** | TP104 |
| **Comment** | |

| Photo 82 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:16 am |
| **Location** | -33.91021, 151.03434 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 83 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:25 am |
| **Location** | -33.91015, 151.03442 |
| **Reference** | TP103 |
| **Comment** | |

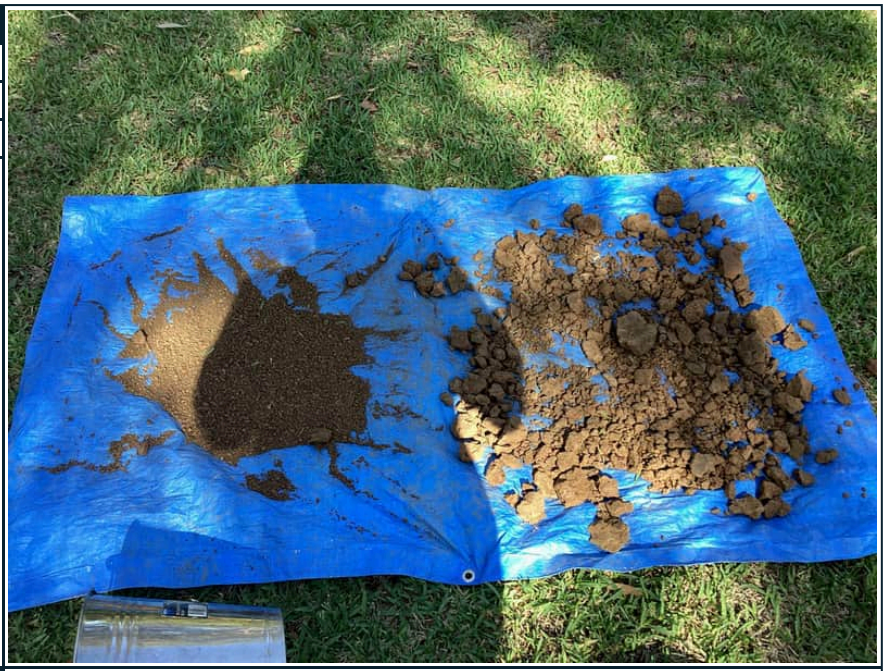
| Photo 84 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:29 am |
| **Location** | -33.91016, 151.03444 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 85 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:33 am |
| **Location** | -33.91014, 151.03447 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 86 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:42 am |
| **Location** | -33.91016, 151.03445 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 87 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:15:45 am |
| **Location** | -33.91016, 151.03444 |
| **Reference** | TP103 |
| **Comment** | |

| Photo 88 | |
|---|---|
| **Timestamp** | 10/12/2024, 9:17:50 am |
| **Location** | -33.91021, 151.03433 |
| **Reference** | TP103 |
| **Comment** | |



| Photo 89 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:04:54 am |
| **Location** | -33.91033, 151.03438 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 90 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:05:25 am |
| **Location** | -33.91031, 151.03433 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 91 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:05:30 am |
| **Location** | -33.91030, 151.03435 |
| **Reference** | TP105 |
| **Comment** | |

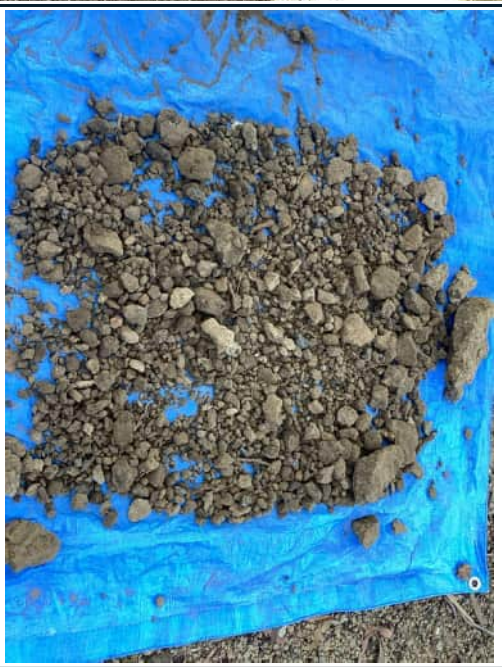
| Photo 92 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:05:33 am |
| **Location** | -33.91030, 151.03436 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 93 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:08:02 am |
| **Location** | -33.91033, 151.03436 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 94 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:08:06 am |
| **Location** | -33.91032, 151.03441 |
| **Reference** | TP105 |
| **Comment** | |

| Photo 95 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:49:54 am |
| **Location** | -33.91005, 151.03525 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 96 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:49:58 am |
| **Location** | -33.91006, 151.03524 |
| **Reference** | TP107 |
| **Comment** | |



| Photo 97 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:50:02 am |
| **Location** | -33.91005, 151.03524 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 98 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:50:09 am |
| **Location** | -33.91003, 151.03524 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 99 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:53:37 am |
| **Location** | -33.91014, 151.03526 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 100 | |
|---|---|
| **Timestamp** | 10/12/2024, 10:53:41 am |
| **Location** | -33.91013, 151.03522 |
| **Reference** | TP107 |
| **Comment** | |

| Photo 101 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:16:43 pm |
| **Location** | -33.91213, 151.03453 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 102 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:00 pm |
| **Location** | -33.91209, 151.03454 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 103 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:17 pm |
| **Location** | -33.91209, 151.03461 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 104 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:23 pm |
| **Location** | -33.91214, 151.03459 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 105 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:17:31 pm |
| **Location** | -33.91214, 151.03458 |
| **Reference** | TP122 |
| **Comment** | |

| Photo 106 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:45:00 pm |
| **Location** | -33.91212, 151.03473 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 107 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:45:09 pm |
| **Location** | -33.91212, 151.03476 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 108 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:58:00 pm |
| **Location** | -33.91212, 151.03478 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 109 | |
|---|---|
| **Timestamp** | 10/12/2024, 12:58:06 pm |
| **Location** | -33.91212, 151.03477 |
| **Reference** | TP123 |
| **Comment** | |

| Photo 110 | |
|---|---|
| **Timestamp** | 10/12/2024, 1:52:09 pm |
| **Location** | -33.91227, 151.03469 |
| **Reference** | TP126 |
| **Comment** | |

| Photo 111 | |
|---|---|
| **Timestamp** | 10/12/2024, 1:52:15 pm |
| **Location** | -33.91228, 151.03469 |
| **Reference** | TP126 |
| **Comment** | |

| Photo 112 | |
|---|---|
| **Timestamp** | 10/12/2024, 1:52:21 pm |
| **Location** | -33.91231, 151.03467 |
| **Reference** | TP126 |
| **Comment** | |

| Photo 113 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:20:51 pm |
| **Location** | -33.91228, 151.03442 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 114 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:20:55 pm |
| **Location** | -33.91228, 151.03444 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 115 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:33:37 pm |
| **Location** | -33.91231, 151.03441 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 116 | |
|---|---|
| **Timestamp** | 10/12/2024, 2:33:41 pm |
| **Location** | -33.91231, 151.03443 |
| **Reference** | TP125 |
| **Comment** | |

| Photo 117 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:28:43 pm |
| **Location** | -33.91210, 151.03428 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 118 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:28:54 pm |
| **Location** | -33.91203, 151.03435 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 119 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:29:02 pm |
| **Location** | -33.91208, 151.03431 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 120 | |
|---|---|
| **Timestamp** | 10/12/2024, 3:29:46 pm |
| **Location** | -33.91206, 151.03427 |
| **Reference** | TP121 |
| **Comment** | |

| Photo 121 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:26 pm |
| **Location** | -33.91226, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 122 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:32 pm |
| **Location** | -33.91227, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 123 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:36 pm |
| **Location** | -33.91226, 151.03427 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 124 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:00:41 pm |
| **Location** | -33.91223, 151.03427 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 125 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:03:36 pm |
| **Location** | -33.91220, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 126 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:03:46 pm |
| **Location** | -33.91219, 151.03430 |
| **Reference** | TP124 |
| **Comment** | |

| Photo 127 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:55:20 pm |
| **Location** | -33.91185, 151.03493 |
| **Reference** | TP120 |
| **Comment** | |

| Photo 128 | |
|---|---|
| **Timestamp** | 10/12/2024, 4:55:31 pm |
| **Location** | -33.91185, 151.03488 |
| **Reference** | TP120 |
| **Comment** | |

| Photo 129 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:42 am |
| **Location** | -33.91262, 151.03468 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 130 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:48 am |
| **Location** | -33.91263, 151.03470 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 131 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:52 am |
| **Location** | -33.91262, 151.03467 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 132 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:33:56 am |
| **Location** | -33.91262, 151.03466 |
| **Reference** | TP129 |
| **Comment** | |

| Photo 133 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:57:01 am |
| **Location** | -33.91253, 151.03441 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 134 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:57:08 am |
| **Location** | -33.91250, 151.03440 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 135 | |
|---|---|
| **Timestamp** | 11/12/2024, 7:57:14 am |
| **Location** | -33.91249, 151.03441 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 136 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:07:51 am |
| **Location** | -33.91256, 151.03431 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 137 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:07:54 am |
| **Location** | -33.91253, 151.03444 |
| **Reference** | TP128 |
| **Comment** | |

| Photo 138 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:54:33 am |
| **Location** | -33.91287, 151.03391 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 139 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:54:37 am |
| **Location** | -33.91289, 151.03392 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 140 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:54:41 am |
| **Location** | -33.91290, 151.03394 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 141 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:56:30 am |
| **Location** | -33.91289, 151.03393 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 142 | |
|---|---|
| **Timestamp** | 11/12/2024, 8:56:33 am |
| **Location** | -33.91288, 151.03393 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 143 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:29:55 am |
| **Location** | -33.91284, 151.03440 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 144 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:30:02 am |
| **Location** | -33.91289, 151.03443 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 145 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:30:09 am |
| **Location** | -33.91292, 151.03441 |
| **Reference** | TP130 |
| **Comment** | |

| Photo 146 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:27 am |
| **Location** | -33.91301, 151.03445 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 147 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:32 am |
| **Location** | -33.91293, 151.03442 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 148 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:39 am |
| **Location** | -33.91290, 151.03440 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 149 | |
|---|---|
| **Timestamp** | 11/12/2024, 9:40:44 am |
| **Location** | -33.91289, 151.03444 |
| **Reference** | TP131 |
| **Comment** | |

| Photo 150 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:18 am |
| **Location** | -33.91245, 151.03394 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 151 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:25 am |
| **Location** | -33.91243, 151.03392 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 152 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:29 am |
| **Location** | -33.91243, 151.03391 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 153 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:33 am |
| **Location** | -33.91243, 151.03392 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 154 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:15:35 am |
| **Location** | -33.91242, 151.03391 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 155 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:19:00 am |
| **Location** | -33.91247, 151.03394 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 156 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:19:04 am |
| **Location** | -33.91245, 151.03394 |
| **Reference** | TP127 |
| **Comment** | |

| Photo 157 | |
|---|---|
| Timestamp | 11/12/2024, 10:19:17 am |
| Location | -33.91242, 151.03393 |
| Reference | TP127 |
| Comment | |

| Photo 158 | |
|---|---|
| Timestamp | 11/12/2024, 10:50:15 am |
| Location | -33.91297, 151.03469 |
| Reference | TP132 |
| Comment | |

| Photo 159 | |
|---|---|
| Timestamp | 11/12/2024, 10:50:21 am |
| Location | -33.91294, 151.03468 |
| Reference | TP132 |
| Comment | |

| Photo 160 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:25 am |
| **Location** | -33.91293, 151.03468 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 161 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:30 am |
| **Location** | -33.91295, 151.03470 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 162 | |
|---|---|
| **Timestamp** | 11/12/2024, 10:50:33 am |
| **Location** | -33.91297, 151.03472 |
| **Reference** | TP132 |
| **Comment** | |

| Photo 163 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:09 am |
| **Location** | -33.90956, 151.03447 |
| **Reference** | TP108 |
| **Comment** | |

| Photo 164 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:18 am |
| **Location** | -33.90956, 151.03447 |
| **Reference** | TP108 |
| **Comment** | |

| Photo 165 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:23 am |
| **Location** | -33.90954, 151.03446 |
| **Reference** | TP108 |
| **Comment** | |

| Photo 166 | |
|---|---|
| **Timestamp** | 11/12/2024, 11:45:26 am |
| **Location** | -33.90949, 151.03444 |
| **Reference** | TP108 |
| **Comment** | |

*Photograph 1 Flammable storage room within Building E, on ground level, access not provided at the time of assessment, photo provided by TAFE Facilities Staff (photograph taken 25/11/2024).*

*Photograph 2 Internal Flammable Liquid Storage room, no staining evident, access not provided at the time of assessment, photo provided by TAFE Facilities Staff (photograph taken 25/11/2024).*

*Photograph 3 500L Underground Fuel Storage Tank vent pipe outside the flammable liquid storage room, access not provided at the time of assessment, photo provided by TAFE Facilities Staff (photograph taken 25/11/2024).*

Appendix E

# 95% UCL Data and Calculations

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.114/04/2025 7:18:35 PM | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | C0 - Arsenic | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | |
| 14 | Total Number of Observations | | 44 | | | Number of Distinct Observations | | | 26 | | |
| 15 | | | | | | Number of Missing Observations | | | 1 | | |
| 16 | Minimum | | 1 | | | Mean | | | 15.36 | | |
| 17 | Maximum | | 180 | | | Median | | | 4.7 | | |
| 18 | SD | | 34.29 | | | Std. Error of Mean | | | 5.169 | | |
| 19 | Coefficient of Variation | | 2.233 | | | Skewness | | | 3.547 | | |
| 20 | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | | 0.441 | | | Shapiro Wilk GOF Test | | | | | |
| 23 | 5% Shapiro Wilk Critical Value | | 0.944 | | | Data Not Normal at 5% Significance Level | | | | | |
| 24 | Lilliefors Test Statistic | | 0.403 | | | Lilliefors GOF Test | | | | | |
| 25 | 5% Lilliefors Critical Value | | 0.132 | | | Data Not Normal at 5% Significance Level | | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | 95% UCLs (Adjusted for Skewness) | | | | | |
| 30 | 95% Student's-t UCL | | 24.05 | | | 95% Adjusted-CLT UCL (Chen-1995) | | | 26.81 | | |
| 31 | | | | | | 95% Modified-t UCL (Johnson-1978) | | | 24.51 | | |
| 32 | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | |
| 34 | A-D Test Statistic | | 5.206 | | | Anderson-Darling Gamma GOF Test | | | | | |
| 35 | 5% A-D Critical Value | | 0.805 | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 36 | K-S Test Statistic | | 0.295 | | | Kolmogorov-Smirnov Gamma GOF Test | | | | | |
| 37 | 5% K-S Critical Value | | 0.14 | | | Data Not Gamma Distributed at 5% Significance Level | | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | |
| 39 | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | |
| 41 | k hat (MLE) | | 0.591 | | | k star (bias corrected MLE) | | | 0.565 | | |
| 42 | Theta hat (MLE) | | 26 | | | Theta star (bias corrected MLE) | | | 27.16 | | |
| 43 | nu hat (MLE) | | 51.97 | | | nu star (bias corrected) | | | 49.76 | | |
| 44 | MLE Mean (bias corrected) | | 15.36 | | | MLE Sd (bias corrected) | | | 20.42 | | |
| 45 | | | | | | Approximate Chi Square Value (0.05) | | | 34.56 | | |
| 46 | Adjusted Level of Significance | | 0.0445 | | | Adjusted Chi Square Value | | | 34.13 | | |
| 47 | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | | 22.11 | | | 95% Adjusted Gamma UCL (use when n<50) | | | 22.39 | | |
| 50 | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | | 0.872 | | | Shapiro Wilk Lognormal GOF Test | | | | | |
| 53 | 5% Shapiro Wilk Critical Value | | 0.944 | | | Data Not Lognormal at 5% Significance Level | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.176 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.132 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0 | | | | Mean of logged Data | 1.683 | |
| 60 | | | | | Maximum of Logged Data | 5.193 | | | | SD of logged Data | 1.219 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 18.43 | | | | 90% Chebyshev (MVUE) UCL | 18.48 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 21.87 | | | | 97.5% Chebyshev (MVUE) UCL | 26.57 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 35.8 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 23.86 | | | | 95% Jackknife UCL | 24.05 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 23.65 | | | | 95% Bootstrap-t UCL | 33.94 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 25.13 | | | | 95% Percentile Bootstrap UCL | 24.64 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 27.68 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 30.87 | | | | 95% Chebyshev(Mean, Sd) UCL | 37.89 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 47.64 | | | | 99% Chebyshev(Mean, Sd) UCL | 66.79 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 37.89 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.114/04/2025 7:20:20 PM | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | C3 - Benzo(a)pyrene | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | |
| 14 | Total Number of Observations | 44 | | | | | Number of Distinct Observations | 7 | | | |
| 15 | | | | | | | Number of Missing Observations | 1 | | | |
| 16 | Minimum | 0.05 | | | | | Mean | 0.185 | | | |
| 17 | Maximum | 0.9 | | | | | Median | 0.225 | | | |
| 18 | SD | 0.158 | | | | | Std. Error of Mean | 0.0239 | | | |
| 19 | Coefficient of Variation | 0.855 | | | | | Skewness | 2.181 | | | |
| 20 | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | 0.728 | | | | | Shapiro Wilk GOF Test | | | | |
| 23 | 5% Shapiro Wilk Critical Value | 0.944 | | | | | Data Not Normal at 5% Significance Level | | | | |
| 24 | Lilliefors Test Statistic | 0.228 | | | | | Lilliefors GOF Test | | | | |
| 25 | 5% Lilliefors Critical Value | 0.132 | | | | | Data Not Normal at 5% Significance Level | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | 95% UCLs (Adjusted for Skewness) | | | | |
| 30 | 95% Student's-t UCL | 0.225 | | | | | 95% Adjusted-CLT UCL (Chen-1995) | 0.233 | | | |
| 31 | | | | | | | 95% Modified-t UCL (Johnson-1978) | 0.227 | | | |
| 32 | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | |
| 34 | A-D Test Statistic | 3.975 | | | | | Anderson-Darling Gamma GOF Test | | | | |
| 35 | 5% A-D Critical Value | 0.766 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 36 | K-S Test Statistic | 0.268 | | | | | Kolmogorov-Smirnov Gamma GOF Test | | | | |
| 37 | 5% K-S Critical Value | 0.136 | | | | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | |
| 39 | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | |
| 41 | k hat (MLE) | 1.595 | | | | | k star (bias corrected MLE) | 1.502 | | | |
| 42 | Theta hat (MLE) | 0.116 | | | | | Theta star (bias corrected MLE) | 0.123 | | | |
| 43 | nu hat (MLE) | 140.4 | | | | | nu star (bias corrected) | 132.2 | | | |
| 44 | MLE Mean (bias corrected) | 0.185 | | | | | MLE Sd (bias corrected) | 0.151 | | | |
| 45 | | | | | | | Approximate Chi Square Value (0.05) | 106.6 | | | |
| 46 | Adjusted Level of Significance | 0.0445 | | | | | Adjusted Chi Square Value | 105.8 | | | |
| 47 | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | 0.23 | | | | | 95% Adjusted Gamma UCL (use when n<50) | 0.231 | | | |
| 50 | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | 0.777 | | | | | Shapiro Wilk Lognormal GOF Test | | | | |
| 53 | 5% Shapiro Wilk Critical Value | 0.944 | | | | | Data Not Lognormal at 5% Significance Level | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.276 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.132 | Data Not Lognormal at 5% Significance Level | | | | | |
| 56 | Data Not Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | -2.996 | | | | Mean of logged Data | -2.031 | |
| 60 | | | | | Maximum of Logged Data | -0.105 | | | | SD of logged Data | 0.869 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 0.257 | | | | 90% Chebyshev (MVUE) UCL | 0.273 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 0.312 | | | | 97.5% Chebyshev (MVUE) UCL | 0.364 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 0.469 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data do not follow a Discernible Distribution (0.05) | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 0.224 | | | | 95% Jackknife UCL | 0.225 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 0.224 | | | | 95% Bootstrap-t UCL | 0.235 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 0.255 | | | | 95% Percentile Bootstrap UCL | 0.224 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 0.231 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 0.257 | | | | 95% Chebyshev(Mean, Sd) UCL | 0.289 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 0.334 | | | | 99% Chebyshev(Mean, Sd) UCL | 0.423 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% Chebyshev (Mean, Sd) UCL | 0.289 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.114/04/2025 7:19:00 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | C1 - Lead | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | | | | | 43 | | Number of Distinct Observations | | | | 30 |
| 15 | | | | | | | | Number of Missing Observations | | | | 1 |
| 16 | Minimum | | | | | 2 | | Mean | | | | 47.32 |
| 17 | Maximum | | | | | 770 | | Median | | | | 19 |
| 18 | SD | | | | | 117.4 | | Std. Error of Mean | | | | 17.91 |
| 19 | Coefficient of Variation | | | | | 2.482 | | Skewness | | | | 5.817 |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | | | | | 0.351 | | Shapiro Wilk GOF Test | | | | |
| 23 | 5% Shapiro Wilk Critical Value | | | | | 0.943 | | Data Not Normal at 5% Significance Level | | | | |
| 24 | Lilliefors Test Statistic | | | | | 0.35 | | Lilliefors GOF Test | | | | |
| 25 | 5% Lilliefors Critical Value | | | | | 0.134 | | Data Not Normal at 5% Significance Level | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | | 95% UCLs (Adjusted for Skewness) | | | | |
| 30 | 95% Student's-t UCL | | | | | 77.44 | | 95% Adjusted-CLT UCL (Chen-1995) | | | | 93.75 |
| 31 | | | | | | | | 95% Modified-t UCL (Johnson-1978) | | | | 80.09 |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | | | | | 1.927 | | Anderson-Darling Gamma GOF Test | | | | |
| 35 | 5% A-D Critical Value | | | | | 0.798 | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 36 | K-S Test Statistic | | | | | 0.22 | | Kolmogorov-Smirnov Gamma GOF Test | | | | |
| 37 | 5% K-S Critical Value | | | | | 0.141 | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | | | | | 0.656 | | k star (bias corrected MLE) | | | | 0.625 |
| 42 | Theta hat (MLE) | | | | | 72.17 | | Theta star (bias corrected MLE) | | | | 75.66 |
| 43 | nu hat (MLE) | | | | | 56.39 | | nu star (bias corrected) | | | | 53.79 |
| 44 | MLE Mean (bias corrected) | | | | | 47.32 | | MLE Sd (bias corrected) | | | | 59.83 |
| 45 | | | | | | | | Approximate Chi Square Value (0.05) | | | | 37.94 |
| 46 | Adjusted Level of Significance | | | | | 0.0444 | | Adjusted Chi Square Value | | | | 37.47 |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | | | | | 67.08 | | 95% Adjusted Gamma UCL (use when n<50) | | | | 67.91 |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | | | | | 0.962 | | Shapiro Wilk Lognormal GOF Test | | | | |
| 53 | 5% Shapiro Wilk Critical Value | | | | | 0.943 | | Data appear Lognormal at 5% Significance Level | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.109 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.134 | Data appear Lognormal at 5% Significance Level | | | | | |
| 56 | Data appear Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 0.693 | | | Mean of logged Data | 2.927 | | |
| 60 | | | | | Maximum of Logged Data | 6.646 | | | SD of logged Data | 1.279 | | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 71.92 | | | 90% Chebyshev (MVUE) UCL | 70.82 | | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 84.36 | | | 97.5% Chebyshev (MVUE) UCL | 103.2 | | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 140.1 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data appear to follow a Discernible Distribution at 5% Significance Level | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 76.78 | | | 95% Jackknife UCL | 77.44 | | |
| 72 | | | | | 95% Standard Bootstrap UCL | 76.47 | | | 95% Bootstrap-t UCL | 150.3 | | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 179.9 | | | 95% Percentile Bootstrap UCL | 79.43 | | |
| 74 | | | | | 95% BCA Bootstrap UCL | 101.6 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 101 | | | 95% Chebyshev(Mean, Sd) UCL | 125.4 | | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 159.2 | | | 99% Chebyshev(Mean, Sd) UCL | 225.5 | | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% H-UCL | 71.92 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | ProUCL computes and outputs H-statistic based UCLs for historical reasons only. | | | | | | | | | | | |
| 87 | H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide. | | | | | | | | | | | |
| 88 | It is therefore recommended to avoid the use of H-statistic based 95% UCLs. | | | | | | | | | | | |
| 89 | Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution. | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UCL Statistics for Uncensored Full Data Sets | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | User Selected Options | | | | | | | | | | | |
| 4 | Date/Time of Computation | ProUCL 5.114/04/2025 7:19:50 PM | | | | | | | | | | |
| 5 | From File | WorkSheet.xls | | | | | | | | | | |
| 6 | Full Precision | OFF | | | | | | | | | | |
| 7 | Confidence Coefficient | 95% | | | | | | | | | | |
| 8 | Number of Bootstrap Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | General Statistics | | | | | | | | | | | |
| 14 | Total Number of Observations | | | | | 44 | | Number of Distinct Observations | | | | 35 |
| 15 | | | | | | | | Number of Missing Observations | | | | 1 |
| 16 | Minimum | | | | | 23 | | Mean | | | | 91.18 |
| 17 | Maximum | | | | | 670 | | Median | | | | 60 |
| 18 | SD | | | | | 103.7 | | Std. Error of Mean | | | | 15.64 |
| 19 | Coefficient of Variation | | | | | 1.138 | | Skewness | | | | 4.365 |
| 20 | | | | | | | | | | | | |
| 21 | Normal GOF Test | | | | | | | | | | | |
| 22 | Shapiro Wilk Test Statistic | | | | | 0.542 | | Shapiro Wilk GOF Test | | | | |
| 23 | 5% Shapiro Wilk Critical Value | | | | | 0.944 | | Data Not Normal at 5% Significance Level | | | | |
| 24 | Lilliefors Test Statistic | | | | | 0.288 | | Lilliefors GOF Test | | | | |
| 25 | 5% Lilliefors Critical Value | | | | | 0.132 | | Data Not Normal at 5% Significance Level | | | | |
| 26 | Data Not Normal at 5% Significance Level | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | Assuming Normal Distribution | | | | | | | | | | | |
| 29 | 95% Normal UCL | | | | | | | 95% UCLs (Adjusted for Skewness) | | | | |
| 30 | 95% Student's-t UCL | | | | | 117.5 | | 95% Adjusted-CLT UCL (Chen-1995) | | | | 127.9 |
| 31 | | | | | | | | 95% Modified-t UCL (Johnson-1978) | | | | 119.2 |
| 32 | | | | | | | | | | | | |
| 33 | Gamma GOF Test | | | | | | | | | | | |
| 34 | A-D Test Statistic | | | | | 2.217 | | Anderson-Darling Gamma GOF Test | | | | |
| 35 | 5% A-D Critical Value | | | | | 0.762 | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 36 | K-S Test Statistic | | | | | 0.179 | | Kolmogorov-Smirnov Gamma GOF Test | | | | |
| 37 | 5% K-S Critical Value | | | | | 0.135 | | Data Not Gamma Distributed at 5% Significance Level | | | | |
| 38 | Data Not Gamma Distributed at 5% Significance Level | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | Gamma Statistics | | | | | | | | | | | |
| 41 | k hat (MLE) | | | | | 1.907 | | k star (bias corrected MLE) | | | | 1.793 |
| 42 | Theta hat (MLE) | | | | | 47.8 | | Theta star (bias corrected MLE) | | | | 50.87 |
| 43 | nu hat (MLE) | | | | | 167.9 | | nu star (bias corrected) | | | | 157.7 |
| 44 | MLE Mean (bias corrected) | | | | | 91.18 | | MLE Sd (bias corrected) | | | | 68.1 |
| 45 | | | | | | | | Approximate Chi Square Value (0.05) | | | | 129.7 |
| 46 | Adjusted Level of Significance | | | | | 0.0445 | | Adjusted Chi Square Value | | | | 128.8 |
| 47 | | | | | | | | | | | | |
| 48 | Assuming Gamma Distribution | | | | | | | | | | | |
| 49 | 95% Approximate Gamma UCL (use when n>=50)) | | | | | 110.9 | | 95% Adjusted Gamma UCL (use when n<50) | | | | 111.6 |
| 50 | | | | | | | | | | | | |
| 51 | Lognormal GOF Test | | | | | | | | | | | |
| 52 | Shapiro Wilk Test Statistic | | | | | 0.928 | | Shapiro Wilk Lognormal GOF Test | | | | |
| 53 | 5% Shapiro Wilk Critical Value | | | | | 0.944 | | Data Not Lognormal at 5% Significance Level | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | | | | | Lilliefors Test Statistic | 0.128 | Lilliefors Lognormal GOF Test | | | | | |
| 55 | | | | | 5% Lilliefors Critical Value | 0.132 | Data appear Lognormal at 5% Significance Level | | | | | |
| 56 | Data appear Approximate Lognormal at 5% Significance Level | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | Lognormal Statistics | | | | | | | | | | | |
| 59 | | | | | Minimum of Logged Data | 3.135 | | | | Mean of logged Data | 4.228 | |
| 60 | | | | | Maximum of Logged Data | 6.507 | | | | SD of logged Data | 0.67 | |
| 61 | | | | | | | | | | | | |
| 62 | Assuming Lognormal Distribution | | | | | | | | | | | |
| 63 | | | | | 95% H-UCL | 105.8 | | | | 90% Chebyshev (MVUE) UCL | 113.5 | |
| 64 | | | | | 95% Chebyshev (MVUE) UCL | 126.2 | | | | 97.5% Chebyshev (MVUE) UCL | 143.8 | |
| 65 | | | | | 99% Chebyshev (MVUE) UCL | 178.5 | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | |
| 68 | Data appear to follow a Discernible Distribution at 5% Significance Level | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | Nonparametric Distribution Free UCLs | | | | | | | | | | | |
| 71 | | | | | 95% CLT UCL | 116.9 | | | | 95% Jackknife UCL | 117.5 | |
| 72 | | | | | 95% Standard Bootstrap UCL | 115.6 | | | | 95% Bootstrap-t UCL | 143.4 | |
| 73 | | | | | 95% Hall's Bootstrap UCL | 221.3 | | | | 95% Percentile Bootstrap UCL | 118.3 | |
| 74 | | | | | 95% BCA Bootstrap UCL | 132.3 | | | | | | |
| 75 | | | | | 90% Chebyshev(Mean, Sd) UCL | 138.1 | | | | 95% Chebyshev(Mean, Sd) UCL | 159.4 | |
| 76 | | | | | 97.5% Chebyshev(Mean, Sd) UCL | 188.9 | | | | 99% Chebyshev(Mean, Sd) UCL | 246.8 | |
| 77 | | | | | | | | | | | | |
| 78 | Suggested UCL to Use | | | | | | | | | | | |
| 79 | | | | | 95% H-UCL | 105.8 | | | | | | |
| 80 | | | | | | | | | | | | |
| 81 | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | |
| 82 | Recommendations are based upon data size, data distribution, and skewness. | | | | | | | | | | | |
| 83 | These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 84 | However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | ProUCL computes and outputs H-statistic based UCLs for historical reasons only. | | | | | | | | | | | |
| 87 | H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide. | | | | | | | | | | | |
| 88 | It is therefore recommended to avoid the use of H-statistic based 95% UCLs. | | | | | | | | | | | |
| 89 | Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution. | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |

| | | | Arsenic | Lead | Zinc | |
|---|---|---|---|---|---|---|
| | | | mg/kg | mg/kg | | |
| Date | Field ID | SOIL UNIT | | | | Comments |
| 09 Dec 2024 | TP101-0.1-0.5 | FILL | 180 | 45 | 89 | |
| 09 Dec 2024 | TP109-0.2-0.3 | FILL | 5 | 11 | 52 | |
| 09 Dec 2024 | TP110-0.1-0.2 | FILL | 2 | 15 | 35 | |
| 09 Dec 2024 | TP111-0.4-0.5 | FILL | 7 | 130 | 160 | |
| 09 Dec 2024 | TP112-0.3-0.4 | FILL | 5 | 86 | 130 | |
| 09 Dec 2024 | TP113-0.6-0.7 | FILL | 5 | 80 | 220 | |
| 09 Dec 2024 | TP114-0.1-0.2 | FILL | 3 | 80 | 91 | |
| 09 Dec 2024 | TP115-0.3-0.4 | FILL | 5 | 42 | 61 | |
| 09 Dec 2024 | TP116-0.6--0.7 | FILL | 2 | 9 | 23 | |
| 09 Dec 2024 | TP117-0.1-0.2 | TOPSOIL | 6 | 26 | 38 | |
| 09 Dec 2024 | TP118-0.3-0.4 | FILL | 3 | 6 | 43 | |
| 09 Dec 2024 | TP119-0.8-0.9 | FILL | 4 | 24 | 230 | |
| 10 Dec 2024 | TP103-0.1-0.2 | FILL | 6 | 26 | 59 | |
| 10 Dec 2024 | TP104-0.2-0.6 | FILL | 1 | 2 | 37 | |
| 10 Dec 2024 | TP106-0.1-0.5 | FILL | 1 | 2 | 27 | |
| 10 Dec 2024 | TP107-0.5-0.6 | FILL | 97 | 28 | 45 | |
| 10 Dec 2024 | TP122-0.1-0.5 | FILL | 3 | 18 | 73 | |
| 10 Dec 2024 | TP123-0.1-0.4 | FILL | 1 | 3 | 49 | |
| 10 Dec 2024 | TP125-0.1-0.3 | FILL | 1 | 2 | 43 | |
| 10 Dec 2024 | TP126-0.1-0.4 | FILL | 5 | 9 | 42 | |
| 11 Dec 2024 | TP108-0.2-0.5 | FILL | 31 | 26 | 50 | |
| 11 Dec 2024 | TP127-0.1-0.3 | FILL | 2 | 16 | 47 | |
| 11 Dec 2024 | TP128-0.1-0.4 | FILL | 4 | 19 | 87 | |
| 11 Dec 2024 | TP129-0.1-0.5 | FILL | 6 | 26 | 51 | |
| 11 Dec 2024 | TP130-0.1-0.6 | FILL | 2 | 2 | 48 | |
| 11 Dec 2024 | TP131-0.1-0.5 | FILL | 3 | 9 | 43 | |
| 11 Dec 2024 | TP132-0.2-0.3 | TOPSOIL | 10 | 770 | 240 | |
| 30/05/2121 | S01_0.2 | FILL | 16 | 8.8 | 48 | |
| 30/05/2121 | S02_0.2 | FILL | 100 | 29 | 48 | |
| 30/05/2121 | S03_0.3 | FILL | 3.4 | 7.4 | 99 | |
| 30/05/2121 | S04_0.2 | FILL | 2.9 | 6.9 | 99 | |
| 30/05/2121 | S05_0.2 | FILL | 1 | 2.5 | 72 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S06_0.1 | FILL | 11 | 74 | 99 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S07_0.1 | FILL | 1 | 2.5 | 88 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S08_0.1 | FILL | 1 | 2.5 | 82 | |
| 30/05/2121 | S09_0.1 | FILL | 83 | 55 | 62 | |
| 30/05/2121 | S09_0.5 | FILL | 8 | 16 | 38 | |
| 30/05/2121 | S11_0.1 | FILL | 37 | 120 | 120 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S12_0.5 | FILL | 4.4 | 18 | 62 | |
| 30/05/2121 | S13_0.1 | FILL | 3.2 | 110 | 110 | |
| 30/05/2121 | S13_0.7 | FILL | 4 | 57 | 66 | |
| 30/05/2121 | S14_0.2 | RESIDUAL* | 11 | 23 | 86 | |
| 30/05/2121 | S15_0.3 | FILL | 5.8 | 19 | 56 | |
| 30/05/2121 | S16_0.3 | RESIDUAL* | 3.8 | 13 | 23 | |
| 30/05/2121 | S17_0.1 | FILL | 3.3 | 16 | 93 | |
| 30/05/2121 | S18_0.2 | FILL | 12 | 120 | 170 | |
| 30/05/2121 | S19_0.1 | RESIDUAL* | 6.3 | 21 | 87 | |
| 30/05/2121 | S23_0.4 | FILL | 7.6 | 1500 | 670 | Data omitted from 95% UCL as at same location as SMEC |

Values less than LOR have been set to half the LOR

| Date | Field ID | SOIL UNIT | Benzo(a) pyrene mg/kg | Comments |
|---|---|---|---|---|
| 09 Dec 2024 | TP101-0.1-0.5 | FILL | 0.05 | |
| 09 Dec 2024 | TP109-0.2-0.3 | FILL | 0.05 | |
| 09 Dec 2024 | TP110-0.1-0.2 | FILL | 0.05 | |
| 09 Dec 2024 | TP111-0.4-0.5 | FILL | 0.9 | |
| 09 Dec 2024 | TP112-0.3-0.4 | FILL | 0.4 | |
| 09 Dec 2024 | TP113-0.6-0.7 | FILL | 0.4 | |
| 09 Dec 2024 | TP114-0.1-0.2 | FILL | 0.3 | |
| 09 Dec 2024 | TP115-0.3-0.4 | FILL | 0.2 | |
| 09 Dec 2024 | TP116-0.6--0.7 | FILL | 0.05 | |
| 09 Dec 2024 | TP117-0.1-0.2 | TOPSOIL | 0.2 | |
| 09 Dec 2024 | TP118-0.3-0.4 | FILL | 0.05 | |
| 09 Dec 2024 | TP119-0.8-0.9 | FILL | 0.1 | |
| 10 Dec 2024 | TP103-0.1-0.2 | FILL | 0.05 | |
| 10 Dec 2024 | TP104-0.2-0.6 | FILL | 0.05 | |
| 10 Dec 2024 | TP106-0.1-0.5 | FILL | 0.05 | |
| 10 Dec 2024 | TP107-0.5-0.6 | FILL | 0.05 | |
| 10 Dec 2024 | TP122-0.1-0.5 | FILL | 0.05 | |
| 10 Dec 2024 | TP123-0.1-0.4 | FILL | 0.05 | |
| 10 Dec 2024 | TP125-0.1-0.3 | FILL | 0.05 | |
| 10 Dec 2024 | TP126-0.1-0.4 | FILL | 0.05 | |
| 11 Dec 2024 | TP108-0.2-0.5 | FILL | 0.05 | |
| 11 Dec 2024 | TP127-0.1-0.3 | FILL | 0.05 | |
| 11 Dec 2024 | TP128-0.1-0.4 | FILL | 0.05 | |
| 11 Dec 2024 | TP129-0.1-0.5 | FILL | 0.1 | |
| 11 Dec 2024 | TP130-0.1-0.6 | FILL | 0.05 | |
| 11 Dec 2024 | TP131-0.1-0.5 | FILL | 0.05 | |
| 11 Dec 2024 | TP132-0.2-0.3 | TOPSOIL | 0.4 | |
| 30/05/2121 | S01_0.2 | FILL | 0.25 | |
| 30/05/2121 | S02_0.2 | FILL | 0.25 | |
| 30/05/2121 | S03_0.3 | FILL | 0.25 | |
| 30/05/2121 | S04_0.2 | FILL | 0.25 | |
| 30/05/2121 | S05_0.2 | FILL | 0.25 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S06_0.1 | FILL | 0.25 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S07_0.1 | FILL | 0.25 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S08_0.1 | FILL | 0.25 | |
| 30/05/2121 | S09_0.1 | FILL | 0.25 | |
| 30/05/2121 | S09_0.5 | FILL | 0.25 | |
| 30/05/2121 | S11_0.1 | FILL | 0.25 | Data omitted from 95% UCL as at same location as SMEC |
| 30/05/2121 | S12_0.5 | FILL | 0.25 | |
| 30/05/2121 | S13_0.1 | FILL | 0.25 | |
| 30/05/2121 | S13_0.7 | FILL | 0.25 | |
| 30/05/2121 | S14_0.2 | RESIDUAL* | 0.25 | |
| 30/05/2121 | S15_0.3 | FILL | 0.25 | |
| 30/05/2121 | S16_0.3 | RESIDUAL* | 0.25 | |
| 30/05/2121 | S17_0.1 | FILL | 0.25 | |
| 30/05/2121 | S18_0.2 | FILL | 0.25 | |
| 30/05/2121 | S19_0.1 | RESIDUAL* | 0.25 | |
| 30/05/2121 | S23_0.4 | FILL | 0.25 | |
| | | | | |

Red text - values <LOR set to half the LOR

Appendix F

# Unexpected Finds Protocol

# Unexpected Finds Protocol

## Purpose

This procedure describes the actions to be taken in the event that previously unidentified material suspected of being contaminated is found during Site earthworks.

## Induction/Training

This Procedure is applicable to all activities conducted by all Site workers that have the potential to encounter contaminated material during earthworks.

The Principal Contractor shall ensure that all personnel are to be inducted on the identification of potential contaminated material and the requirements with this procedure during the inductions and safety toolbox talks.

## What is and Unexpected Find?

In the context of this procedure an unexpected find is where evidence of contamination is identified during the course of works that has not been previously identified at the Site or is not already being managed or controlled by another procedure. Examples of unexpected finds may include but not limited to those described in Table C1 below.

Table C1- Typical Unexpected Finds

| Unexpected contamination source type | Typical observations |
|---|---|
| Asbestos containing material (ACM)<br>or<br>Friable forms of asbestos | Occurrences of bonded fibre cement sheeting in relatively good condition are expected and should be managed as outlined within the RAP.<br>Less common, but potential friable forms of asbestos include asbestos lagging (within pipe lagging), loose fill asbestos insulation), flexible materials (asbestos brake pads) or bonded ACM which that is in a degraded condition such that it can be broken or crumbled by hand pressure. |
| Buried wastes | Pockets of buried materials with higher concentration of wastes – different to what has previously been observed.<br>May include building and demolition wastes, industrial waste, medical wastes, agricultural waste, animal carcases and may contain ACM.<br>May include putrescible material (larger volumes of buried vegetation). |
| Chemical containers | Buried fuel or chemical drums/containers/tanks. |
| Coal tar asphalts | Typically, black asphaltic or tarry material with strong tarry odour or similar. |
| Industrial contaminated materials or liquids | Soils containing higher volumes of ash, slag, coal, bitumen or other ‘non-natural’ material.<br>Unusually discoloured material.<br>Soils with unusual (non-natural) odours. |

# Unexpected finds procedure

The Unexpected Finds Procedure is illustrated in the Figure  below and outlined in Table C2.

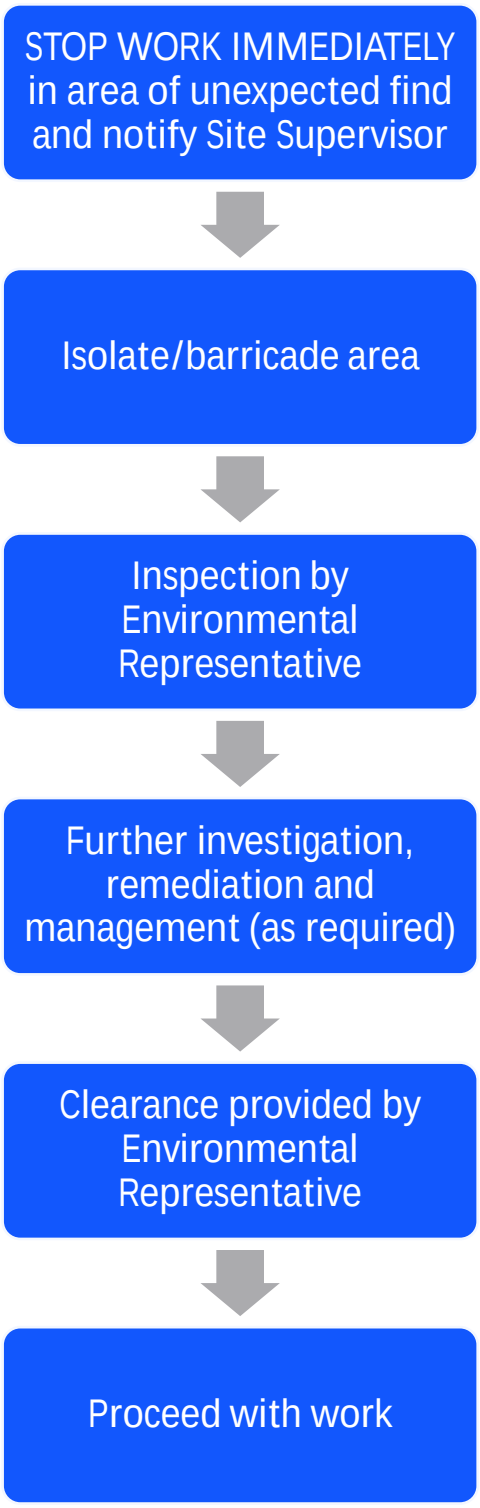



Figure C1: Flowchart of Unexpected Finds Protocol

Table C2: Unexpected Finds Protocol

| Procedural steps | Details |
|---|---|
| Unexpected find encountered | STOP ALL WORK in the immediate/affected area.<br>Immediately notify the Site Supervisor<br>Isolate/barricade the area<br>Recommence works in an alternative area where practicable. |
| Assess the area | Environmental Representative to be notified to assess the unexpected find and provide advice as to the required scope of a contamination investigation in the area of the find.<br>The assessment may require sampling of the material(s) as determined by the Environmental Representative.<br>The Environmental Representative (in consultation with the Site Supervisor) will determine the appropriate management measures to be implemented. |
| Environmental management and work health safety management | For any work in identified areas the Environmental Representative shall advise as to levels of Personal Protective Equipment (PPE) required.<br>A specific Environmental Work Method Statement (EWMS) may be required depending on the extent and magnitude of the contamination.<br>Prior to any contamination investigation, management or remediation activities appropriate Safe Work Method Statements (SWMS) will be updated or prepared for review and approval by the Environmental Representative. |
| Remedial action and clearance | If excavation and offsite disposal is selected as the preferred remedial option, this will be carried out under the instruction of the Environmental representative with appropriate waste classification and validation/clearance. |
| Recommence works | Recommence works once remedial works have been implemented. |

Appendix G

# Data Quality Indicators

# 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
- 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 G1 to G5 below.

Table G1: Data quality indicators - Completeness

| Completeness | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| All critical locations will be sampled | Samples will be collected as per Section 9.2 (validation) | | All critical samples analysed. | Samples will be analysed as per Section 9.2 (validation) | |
| All samples collected | Samples will be collected from relevant media as per Section 9.2 validation) | | All analytes analysed according to sampling plan | Samples will be analysed as per Section 9.2 (validation) | |
| SOPs appropriate and complied with | SMEC SOPs/Field instructions will be implemented | | 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. | |
| Experienced sampler | An experienced SMEC Environmental Representative will conduct the sampling | | 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. | |
| Documentation correct | Samples will be handled and transported under appropriate chain of | | Sample holding times complied with | Samples will be analysed within holding times specified by NEPC (1999, amended 2013) | |

| Completeness | | | | | |
|---|---|---|---|---|---|
| | 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 daily (or in accordance with manufacturers recommended calibration interval). | | | | |

Table G2: Data quality indicators – Comparability

| Comparability | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| Same SOPs used on each occasion | SMEC SOPs/field instructions will be implemented | | 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 | |
| Experienced sampler | An experienced SMEC Environmental Representative will conduct the sampling. | | Same sample limits of reporting (LOR) | | |
| Climatic conditions (temperature, rainfall, wind...) | Sampling for this work will be completed when necessary. Climatic conditions are not expected to cause issues for comparability of data | | Same laboratories (justify/quantify if different) | | |
| Same types of samples collected | Samples will be collected in the appropriate laboratory supplied container specific to the analyses performed. | | Same units (justify/quantify if different) | | |

Table G3: Data quality indicators - Representativeness

| 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 9.2 (validation). Any variations will be justified. | | All samples analysed according to sample plan | Samples will be collected and analysed as listed in Section 9.2 (validation). 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. | |
| All media identified in sample plan sampled | Samples will be collected and analysed as listed in Section 9.2 (validation). | | All samples analysed according to sample plan | Samples will be collected and analysed as listed in Section 9.2 (validation). | |

Table G4: Data quality indicators – Precision

| Precision | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| SOPs appropriate and complied with | SMEC SOPs/field instructions will be implemented | | 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).<br>Note: Field duplicates excluded for asbestos gravimetric sampling. | | Analysis of: field duplicates | Field duplicates have relative percentage difference (RPD) control limits:<br>Less than 50% (soil) or 30% (groundwater), where result is greater than 10 times limit of reporting (LOR).<br>No limit where result is less than 10 times LOR. | |
| | Experienced and trained staff to carry out sampling. Sampling methodologies appropriate and complied with. | | Analysis of: laboratory duplicates | Laboratory duplicates have relative percentage difference (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% | |

| Precision | | | | | |
|---|---|---|---|---|---|
| | | | | In accordance with laboratory specific QC Acceptance criteria. | |
| | | | Analysis of laboratory-prepared volatile trip spikes (only if volatile contaminants are being tested) | Trip spikes recoveries were recorded between 60% and 110% for volatile contaminants (TRHC6-C10/BTEX) | |
| | | | Analysis of laboratory-prepared volatile trip blanks (only if volatile contaminants are being tested) | Trip blanks were free of detectable concentrations of volatile contaminants (TRHC6-C10/BTEX) | |

Table G5: Data quality indicators - Accuracy (Bias)

| Accuracy (bias) | | | | | |
|---|---|---|---|---|---|
| Field considerations | DQI | DQI Compliance | Laboratory considerations | DQI | DQI Compliance |
| SOP appropriate and complied with | SMEC SOPs/field instructions will be implemented | | Analysis of field blanks | A laboratory prepared trip blank will be analysed for soil sampling (as defined in AS4482.2-1999 and NEPC (1999). Results are to be less than the LOR | |
| Rinsate blank | Where reusable sampling equipment is utilised (if any) a rinsate blank will be analysed and results compared against the PQL | | 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 | |
| Trip spike | Trip spikes are collected and analysed together with samples | | 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%) | |
| Preservation, transport, and storage | Samples appropriately preserved in laboratory | | Analysis of surrogate spike | Surrogates will be analysed as per NEPC | |

| Accuracy (bias) | | | | | |
|---|---|---|---|---|---|
| | supplied containers, stored, and transported correctly and within holding times | | | 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). | |
| | | | Analysis of laboratory control samples | Laboratory control samples (LCS) 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) | |
| | | | Analysis of laboratory-prepared spikes | Spikes 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. | |

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